

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



SSC

62.91 LIBRARY,  
U.S. Department of Agriculture,  
Washington, D.C.

# Seattle Seed Company's

Complete Catalogue of

**SEEDS**  
Poultry Supplies  
Etc.

1907

Office and Store at

319  
First Avenue  
South

Seattle  
U. S. A.



## ...LIST OF CONTENTS...



Page.	Page.		
Artichoke Asparagus.....	3	Leek, Lettuce.....	12
Armour's Flower Food.....	60	Leg Bands.....	50
Auto Spray .....	47	Melons .....	13—14
Beans, Beets .....	3— 6	Mushroom, Mustard, Nasturtum.....	14
Bone Cutters, Grit Machines.....	49—50	Nest Eggs.....	61
Books .....	62—63	Nitro Culture.....	39
Brocoli Brussels Sprouts.....	6	Okra or Gumbo.....	14
Broadcast Seed Sowers.....	55	Onions, Onion Sets, Parsley.....	15
Brooders, Cyphers'.....	42	Parsnip, Peas.....	15—17
Cabbage .....	6— 7	Pepper, Pumpkin.....	17
Caponizers .....	46	Planet, Jr., Tools.....	51—54
Carrot, Cauliflowers.....	8	Plants, Bushes.....	25—26
Celery, Chervil.....	9	Plants, Bushes.....	38
Chicory Collards.....	9	Poultry Foods.....	43—46
Clipper Fanning Mills.....	54	Poultry Netting.....	50—51
Clover and Grass Seeds.....	22—25	Poultry Punch.....	45
Clover Cutters .....	61	Poultry Supplies.....	42—46
Corn .....	9—10	Pruning Tools.....	54
Cress, Cucumber.....	10—11	Radishes, Rape.....	17—18
Dandelion Egg Plant.....	11	Raffia .....	55
Endive .....	11	Reddick Mole Trap.....	55
Fertilizers .....	60	Rhubarb, Salsify, Spinage.....	18
Fly Knocker.....	48	Spray and Spray Materials.....	59
Flower Seeds.....	26—38	Spray Pumps.....	56—59
Grafting Wax.....	55	Squash, Sugar Cane.....	19
Grass and Clover Seeds.....	22—25	Sunflower, Tobacco.....	19
Hand Corn Planters.....	55	Thermometers .....	46
Herbs .....	21	Tobacco Dust .....	60
Incubators, Cyphers'.....	40—42	Tomatoes .....	20
International Foods .....	44	Tree Labels .....	55
Kale, Kohl Rabi.....	11	Turnip .....	20—21
Lamberts Insecticide.....	48	Wilbur's Foods.....	46
Lawn Mowers .....	61	Weeders .....	55
		Wilson Dry Bone Mills.....	61

# Special Offer:

For **\$1.00** you can select  
any **25 Papers** of our regular

**5c.** Garden and Flower Seed packages, or you can select **12**  
**Papers** for **50c.** All postage paid.

"NEW STORE"

"NEW SEEDS"

We Make a Specialty of Hardy Northern Grown  
Seeds Adapted For This Climate As  
Well As Alaska.

# SEATTLE SEED CO'S.

## PRICED CATALOGUE FOR 1907

319 First Avenue South

SEATTLE, WASHINGTON.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

**Order Sheets**—Each Catalogue is provided with an order sheet and addressed envelope. Please use these in making out and mailing your order. Write so plainly that there can be no mistake as to your name, your address or your shipping directions.

**Prices**—All seeds are sent by mail or express at our expense, at the prices stated, except where noted under different heads. The prices given for 10, 25 and 100 pound lots do not include freight, which must be paid by the party ordering.

**How to Send Money**—Remittances may be made by any of the following methods: By Post-Office Money Order, by Bank Draft, by Express (by this method all charges must be prepaid,) by Express Company's Money Order (this is the best and safest plan) or by Registered Letter (this is the least desirable method.) Money should never be sent loose in an unregistered envelope.

We use the greatest care to furnish seeds that are pure and reliable, but do not warrant them in any particular. If the purchaser does not accept them on these terms, they are at once to be returned.

SEATTLE SEED CO.

H. SCHUETT, Proprietor and Manager.

# VALUABLE TABLES.

Quantity of Seed Required to Sow an Acre of Ground.	Lbs. to the acre
Alfalfa, or Lucerne .....	25 to 30
Barley—Broadcast .....	125 to 130
Beans, Dwarf or Bush—Hills .....	50
Beans, Dwarf or Bush—Drills .....	60
Beans, Tall or Pole—Hills .....	35
Beet, Garden—Drills .....	10
Beet, Field—Drills .....	8 to 10
Broom Corn—Drills .....	12
Buckwheat—Broadcast .....	45
Cabbage, in beds to cover an acre after transplanting .....	1/4
Carrot—Drills .....	4
Clover, Red—Broadcast .....	12 to 15
Clover, White—Broadcast .....	8 to 10
Clover, Alsike—Broadcast .....	6 to 8
Corn, Sweet or Field—Hills .....	15
Corn, to cut green for fodder—Drills or Broadcast .....	125
Cucumbers—Hills .....	2
Flax, when wanted for seed .....	30
Flax, when wanted for fiber .....	50
Grass, Kentucky Blue, for pasture .....	30 to 50
Grass, Kentucky Blue, for lawns .....	100 to 125
Grass, Orchard .....	40
Grass, English or Australian Rye, for meadows .....	50
Grass, English or Australian Rye, for lawns .....	75 to 100
Grass, Italian Rye .....	50
Grass, Red Top .....	30
Grass, Timothy .....	20
Grass, Meadow Fesque, or English Blue .....	35
Grass, Mesquite, in the chaff .....	35
Grass, Hungarian .....	30 to 40
Grass, Millet .....	30 to 40
Grass, Millet, for seed .....	15
Grass, Mixed Lawn .....	60 to 65

A much larger quantity of Seed is required to make a fine Lawn that for other purpose.

Grass, Mixture for mowing or grazing .....	{	Clover.....	8
		Timothy.....	15
		Red Top.....	15
Hemp—Broadcast .....		40 to 50	
Melon, Water—Hills .....		2 to 3	
Melon, Musk—Hills .....		2 to 2 1/2	
Oats—Broadcast .....		80 to 90	
Onion, Black Seed—Drills .....		.5 to 6	
Onion, Bottom Sets—Drills .....		.250	
Onion, Black Seed, for Bottom Sets .....		40 to 60	
Parsnip—Drills .....		6 to 7	
Peas—Drills .....		100	
Peas—Broadcast .....		150	
Potatoes—Hills .....		500	
Pumpkins—Hills .....		.5 to 6	
Radish—Drills .....		8 to 10	
Rye—Broadcast .....		100	
Sage—Drills .....		8	
Spinach—Drills .....		10	
Squash, bush varieties—Hills .....		.4	
Squash, running varieties—Hills .....		.3	
Sugar Cane, if for sugar .....		.6 to 10	
Sugar Cane, if for fodder .....		.70 to .80	
Tomato, in beds to transplant .....		1/8 to 1/4	
Turnip and Ruta-baga—Drills .....		1 1/2 to 3	
Turnip and Ruta-baga—Broadcast .....		3	
Vetches—Broadcast .....		150	
Wheat—Broadcast .....		80 to 100	
Wheat—Drills .....		75 to 80	

# VEGETABLE SEED ::: DEPARTMENT :::



The object of this department is to describe all the known and approved food vegetables (with their seeds) of the subtropical and temperate zones; but duplicates of varieties which differ from each other only in name are discarded, as well as those varieties which, after years of trial, are found to be of no special or distinctive value. Long lists of so-called varieties may prove as perplexing and deceptive to the practical grower as they are showy in the pages of a catalogue.

The following-named varieties may be relied on as distinctive and valuable, and the directions given for culture, if practically followed, will insure success.

We constantly add to our stock all the new varieties appearing from time to time if they prove of sufficient merit to warrant us to recommend them to the public.

## ARTICHOKE

**LARGE GREEN GLOBE**—The variety used as a table vegetable. The edible portion is the thick end of the leaf of the flower head, cooked like asparagus. Sow early, in drills one foot apart, and, when about ten inches high, transplant into rows four feet apart each way. It will produce only a small crop the first year, but will continue in good bearing five years. Cut before the bud opens.

Pkt., 5c; oz., 35c; 2 oz., 60c; 1/4 lb., 95c; lb., \$3.25.

## ASPARAGUS

One of the first and most healthful of early spring vegetables. Soak the seed twenty-four hours in warm water, and sow in drills one foot apart. An ounce of seed will sow about thirty feet of drill. Keep the soil mellow and free from weeds. After one year's growth, transplant a foot apart, in rows about three feet apart. The crown of the plant should be six inches below the surface. Keep the soil loose, manure heavily, and give an annual dressing of salt when the plant is dormant.

**CONOVER'S COLOSSAL**—The standard variety, on account of its large size, great productiveness, and superior quality.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; 1/4 lb., 20c.; lb., 60c.

**COLUMBIAN MAMMOTH WHITE**—A newer and distinct and valuable variety. The stalks are white, of the largest size; very productive and early.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; 1/4 lb., 25c.; lb., 75c.

**PALMETTO**—About the same size as Colossal, quite early, and shades towards bright green in color.

Pkt., 5c.; oz., 10c.; 2 oz., 15c.; 1/4 lb., 25c.; lb., 65c.

## BEANS

[When beans by the pound are wanted by mail or express, prepaid, remit 10 cents per pound, to cover charges; 10, 25, and 100-pound lots at buyer's expense for freight.]

Plant, after danger of frost is past, in rich, mellow loam, or highly manured soil, finely pulverized. The bush varieties yield best when planted four to six inches apart in two and one-half to three foot rows. Keep the ground moist, and cultivate thoroughly, being careful not to

work among nor handle them when wet or damp with rain or dew.

## Dwarf or Bush Green Podded Kinds

[10 cents a pound extra if sent by mail or express prepaid.]

**EXTRA EARLY RED VALENTINE, IMPROVED ROUND POD**—Is of healthy, vigorous growth, and has no superior in any respect among the green-podded kinds. The pods are round, very fleshy, tender, and rich. The bean is rather small, and, when ripe, usually irregular in form and red in color.

Pkt., 10c.; lb., 15c.; 10 to 25 lbs., 12½c per lb.

[10 cents a pound extra if sent by mail or express prepaid.]

**EARLY MOHAWK**—The hardiest of the bush kinds, and may safely be planted a week earlier than any other. The pods are pale green, large, and broad. The vines continue in bearing a long time, and will withstand a light frost. The bean is large, dark purple and brown mottled.

Pkt., 10c.; lb., 15c.; 10 to 25 lbs., 10c per lb.

**EARLY LONG YELLOW SIX WEEKS**—A standard variety; vines vigorous and productive, pods very long and tender when young. The bean is long, and of a rich brownish yellow color.

Pkt., 10c.; lb., 15c.; 10 to 25 lbs., 10c per lb.

**EARLY ROUND YELLOW SIX WEEKS IMPROVED ROUND POD**—Thick, fleshy pods, and quite stringless; very early and hardy; superior to the old Yellow Six Weeks. Dry beans are yellow drab, and nearly round.

Pkt., 10c.; lb., 15c.; 10 to 25 lbs., 10c per lb.

**EXTRA EARLY REFUGEE**—Said to be the earliest green-podded variety, fit for the table two weeks in advance of the old Refugee, and retaining all the good qualities of that standard sort.

Pkt., 10c.; lb., 15c.; 10 to 25 lbs., 12½c per lb.

**REFUGEE or THOUSAND TO ONE**—The best late kind for snaps, and very productive. The pods are dark green, veined with purple, tender, and crisp, and considered the best variety for pickling. The bean is rather small, oblong, dark purple to black, mottled with light yellowish brown.

Pkt., 10c.; lb., 15c.; 10 to 25 lbs., 10c per lb.

## BEANS—Continued

### Dwarf or Bush Green Podded Kinds.

**BROAD WINSOR**—Also known as Horse Beans. Stock erect, strong, and shrubby. The bean is large, broad, and flat; it is best green shelled. To insure well-filled pods, pinch off the top of the stock and the ends of the shoots when the pods are forming. A very popular table vegetable in European countries.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 6c per lb.

**STRINGLESS GREEN POD**—A valuable addition to the green-podded sorts; extra early, round, fleshy pods; very brittle, and almost entirely stringless.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.

### Dwarf Lima Beans

[10 cents a pound extra if sent by mail or express prepaid.]

**HENDERSON'S BUSH LIMA**—A small Lima Bean, early and prolific; desirable for early use, but not equal in quality to the different Large Limas.

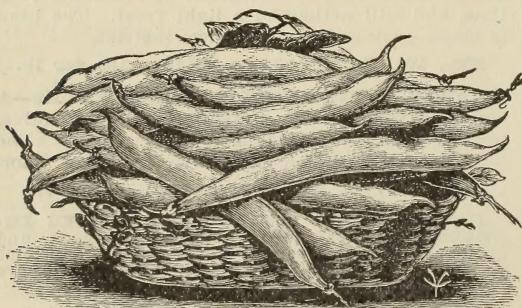
Pkt., 10c; lb., 15c; 10 to 25 lbs., 12c per lb.

### Dwarf or Bush Wax, Yellow-Podded Kinds

[10 cents a pound extra if sent by mail or express prepaid.]

**EXTRA EARLY CHALLENGE BLACK WAX**—Extremely early, about a week in advance of any other wax variety, and considered the most desirable for first crop. The plants are vigorous and very productive; the pods resemble those of the Prolific German Wax, but are a little flatter. Ripe beans medium size, jet black.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.



**GOLDEN WAX**—A standard wax variety, earlier than the old wax kinds. The pods are stringless, very tender, and excellent. The bean is of medium size, purple and white marbled, and one of the best quality, green shelled or dry.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.

**DAVIS WAX**—A hardy, rustless, and immensely productive bush variety. The pods are long, nearly straight, white, and handsome; cooked when young they are tender, juicy, and of fine flavor. The dried bean is kidney shaped, clear white, and a favorite for baking and canning. Popular with canners and market gardeners.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.

**WARDWELL'S KIDNEY WAX**—A robust, hardy variety, yielding a heavy crop of large, unusually handsome, wax-like pods. They are fleshy, tender, and excellent, and are ready for the table earlier than any other wax kind, except the Black-eyed Wax. The bean, which is white with dark markings around the eyes, is larger than most other wax beans.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.

**RUST-PROOF or DETROIT WAX**—Excelling in some respects any other wax variety. Is not likely to rust, even when exposed to very wet weather. Pods flat, good length, and very broad. Its quality of keeping fresh and crisp a long time after being picked makes it valuable for shipping long distances. It is extra early, quality in the pod all that can be desired, and also excellent green shelled.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.

**GERMAN WAX, WHITE SEEDED**—Much resembling the Black Seeded, except that the pods are larger. The bean, being white, is preferred by some dry for winter use.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.

### PROLIFIC GERMAN WAX, BLACK SEEDED

—This is a new kind, and an improvement on the German Wax. It is very prolific, yielding a larger crop than any other bush variety. The pods are large, of a creamy color, and good quality. The bean is rather small and glossy black.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.

### Pole or Running Varieties

The pole or running kinds require greater care than the dwarf or bush varieties, but continue in bearing all summer, and yield a much larger crop. They should be planted in rich, mellow soil, in hills four feet apart each way, and well supported with frames or poles firmly placed in the ground. Plant five or six beans in each hill, but allow only three or four vigorous plants to mature.

**WHITE CREESE-BACK**—Vines not as large as some other kinds, but very productive. The pods which are produced in large clusters, are round, fleshy, of superior quality, mature early, and stand shipping any required distance. The bean is small, white, very firm, and excellent dry shelled. A great favorite in many parts of the South.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 10c per lb.

**SOUTHERN PROLIFIC**—A very productive kind, continuing in bearing until frost. The pods are very tender, as they grow rapidly, and are ready for the table earlier than any other pole variety. They are produced usually in clusters of four, and are in every respect superior as snap beans. The bean is small, and of a dark dun color.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 10c per lb.

**KENTUCKY WONDER or OLD HOMESTEAD**—A vigorous, good climber, very prolific, bearing in clusters extremely long and very fleshy, succulent pods, round, thick, and remarkably tender. Dry beans are dun colored, long, and oval. A first class pole variety.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 10c per lb.

## BEANS—Continued

**DUTCH CASE KNIFE**—Produces large, flat pods, that are excellent for snaps, cut young. The bean is white, large, flat, and of superior quality green shelled or dry.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 10c per lb.

**LONDON HORTICULTURAL or SPECKLED CRANBERRY**—Very desirable for the family garden. Vines vigorous, bearing light green pods, streaked with red. The bean is large, oval, cream-colored, beautifully splashed with red, and has no superior for cooking, either green shelled or dry.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 10c per lb.

**SCARLET RUNNER**—A rapid grower, cultivated both for its beautiful scarlet blossoms and for table use. The pods have an approved flavor of their own, cooked as snaps, when about three-fourths grown; the most popular of all string beans in England. The bean, which is very large,

is handsomely variegated with dark purple and black, and is used by many green shelled.

Pkt., 10c; lb., 25c

## Pole or Running Lima Beans

**LARGE WHITE LIMA**—A tall, slender, vigorous vine, bearing smooth, light-green leaves, white blossoms, and pods in clusters. The pods are long, broad, and thin, the beans large, kidney shaped, flat, and unsurpassed in quality, green shelled or dry. This variety comes to its highest state of perfection in the rich valleys of the Pacific Coast and in the Southern States, where it continues long in bearing, producing a large crop.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12c per lb.

**KING OF THE GARDEN LIMA**—Larger pods and larger beans than the Large White Lima. Quite a favorite with market gardeners.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12c per lb.

## BEETS

## For Table Use

The Beet is hardy, and may be planted as soon as the ground can be well prepared, doing best in rich, sandy soil, sown in rows of sixteen inches apart, covered one and one-half inches deep. The seed will sprout better if soaked

twenty-four hours in warm water before planting. Thin out by using the largest ones when they are of sufficient size, continuing until they are six or eight inches apart in the row. For field crop, the rows should be far enough apart to permit the use of a horse cultivator.

**EXTRA EARLY ECLIPSE BLOOD TURNIP**—An improved early kind, having a small top and a protruding root. The flesh is bright and dark red, tender, and sweet. It attains a good size without becoming woody, and is a good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60

**EARLY EGYPTIAN BLOOD TURNIP**—Excellent for forcing, maturing early; of medium size, flattened on top; flesh deep red, fine grained, and sweet; best used when young.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c

**EARLY BASSANO BLOOD TURNIP**—This variety produces a large top and leaf stalks that are excellent cooked with the young roots. They should be used as soon as large enough, as they become coarse and tasteless with age. Flesh bright red, shaded with circles of white.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c.

growth, not liable to become woody, keeps well. Flesh bright red, tender, and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c.

**CROSBY'S EXTRA EARLY EGYPTIAN BLOOD TURNIP**—Very early, large, globular, somewhat lighter colored than the above, and of fine tissue and flavor.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c.

**EDMUND'S EARLY BLOOD TURNIP**—Dark red flesh, zoned with a lighter shade; very crisp and tender; keeps sufficiently well to be used as either a summer or winter variety; very desirable addition to the list of turnip-shaped sorts.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c.

**DARK RED TURNIP**—Has several attractive features, and is considered by some the best variety. Globular, smooth, handsome, uniform in shape, with small tops; it matures early and lasts long; flesh sweet, crisp, and tender. Superior for home use; a favorite with market gardeners and excellent for canning purposes.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c.

**HALF LONG BLOOD RED**—One of the very best for winter use; does not become woody, and keeps equally as well as the Long Dark Blood. The root is smooth and handsome, and the flesh as brilliant in color and good in quality as the best Blood Turnip varieties. We recommend our customers to give it a trial.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c.

**LONG SMOOTH DARK BLOOD**—The leading late variety, keeping well all winter. Should be planted in rich, warm soil to secure rapid growth, which makes it tender. Top small, root long and smooth; flesh deep purple; fine, and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c.



**EARLY BLOOD RED TURNIP**—A leading turnip-shaped variety, of medium size, rapid

## BEETS—Continued

**SWISS CHARD SILVER or SEA KALE BEET**

—Cultivated exclusively for its leaves and leaf stalk, which are prepared and served similar to asparagus, and are tender and delicious. If cut frequently, the young leaves reappear and make excellent greens, taking the place of spinach.

Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 50c.

**Beets For Stock Feeding**

(25-lb. lots at buyer's expense for freight.)

**LONG RED MANGEL WURZEL**—A large variety, producing an enormous crop. Grows much above ground; flesh white, shaded with red. Grown mostly for stock feeding, but used for the table when young.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 16c per lb.

**IMPROVED MAMMOTH LONG RED MANGEL WURZEL**—An improvement on the Long Red Mangel Wurzel. Roots of more uniform shape; flesh darker in color and generally better relished by stock. Produces an enormous crop.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 16c per lb.

**YELLOW GLOBE MANGEL WURZEL**—An excellent, large, orange-colored variety; very productive and a good keeper. Particularly adapted for growing on shallow soil.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 16c per lb.

**YELLOW GIANT INTERMEDIATE, LEVIA-THAN, OR GATE POST**—An improved variation from Yellow Ovoid; smooth skin; sweet, firm flesh; heavy cropper and good keeper.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 16c per lb.

**YELLOW OVOID MANGEL WURZEL**—Similar to the Yellow Globe, but grows to a much larger size, and more of a half-long shape. Yields an enormous crop. One of the most desirable stock-feeding mangels.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 16c per lb.

**GOLDEN TANKARD MANGEL WURZEL**—Ovoid in shape, grows to a large size, and produces an astonishingly large crop. Flesh of a bright yellow, very nutritious, and said to be preferred by stock to any other. Can be grown successfully on shallower soil than Long Red Mangels, and is more easily gathered.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 16c per lb.

**FRENCH WHITE SUGAR RED TOP**—Large and excellent. The flesh is of a fine grain, tender, and sweet. Rich in sugar, and very productive. Superior for stock feeding, and sometimes used for the table when young.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 16c per lb.

**LANE'S IMPERIAL SUGAR**—An improved variety of the French Sugar Beet, recommended as being harder and as containing more sugar than the old variety. Large and excellent for stock.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 16c per lb.

**Beets For Sugar Making**

(25 lbs. and over at buyer's expense for freight.)

**VILMORIN'S IMPROVED WHITE SUGAR**—A medium-sized white Sugar Beet, claimed to be the result of scientific selection from sugar-producing varieties. Uniform in size, form, and color, and of a high percentage of sugar.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 17c per lb.

**KLEIN WANZLEBEN or GERMAN IMPERIAL WHITE SUGAR**—This is the variety mostly grown in California, for use in the manufacture of sugar. It gives the best results raised in sandy soil free from alkali. It is very profitable as a Sugar Beet. Hardier and more easily handled than Vilmorin's.

Pkt., 5c; oz., 10c; 2 oz., 10c;  $\frac{1}{4}$  lb., 15c; lb., 35c;  
25 lbs., 17c per lb.

**Broccoli**

Broccoli is a species of cabbage so nearly resembling the cauliflower as to be hardly distinguishable from it, being, however, taller, harder, and more easily grown. Treatment and cultivation the same as for cauliflower.

**EARLY WHITE FRENCH** is the best variety. Vigorous and hardy; heads hard, white, compact, and durable.

Pkt., 5c; oz., 35c; 2 oz., 60c;  $\frac{1}{4}$  lb., \$1.00

**Brussels Sprouts**

Cultivated for the small heads, which are very sweet and of excellent quality, growing in great numbers on the tall stem of the plant. Particularly valuable for our California climate, as a few plants will supply a constant succession during the whole season. Cultivate the same as cabbage.

**DWARF, IMPROVED**—The best. Produces abundantly. Break away the spreading leaves at the top of the plants when the sprouts begin to form.

Pkt. 5c; oz., 20c; 2 oz., 30c;  $\frac{1}{4}$  lb., 50c; lb., \$1.50

**CABBAGE**

Cabbage is the most universally cultivated of all garden vegetables, and will thrive in almost any soil, but, to bring it to the greatest perfection, the soil should be deep, rich, and moist. For early use, sow in hotbed or cold frame in winter or very early in the spring. For general culture, sow in beds and transplant, the early varieties one and a half to three feet apart, and the large, late kinds, three to four feet apart each way.

**Early or Spring Varieties**

**EARLY JERSEY WAKEFIELD**—The variety so popular in the New York market. Heads conical, of medium size, firm, very crisp, and tender. Early and a sure header.

Pkt., 5c; oz., 25c; 2 oz., 40c;  $\frac{1}{4}$  lb., 65c; lb., \$2.00

## CABBAGE—Continued

## Early or Spring Varieties

**EARLY EXPRESS**—A rapid grower, and held by some to be the earliest in cultivation. It resembles somewhat the Jersey Wakefield, but is rather larger, not quite so pointed, and of a more creamy tint. The heads are firm, tender, and of fine quality.

Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 65c; lb., \$2.00



**CHARLESTON or LARGE WAKEFIELD**—Larger and a little later than the Early Jersey Wakefield, but having the same general shape, except that it is less pointed. A good sort for market gardeners.

Pkt., 5c; oz., 30c; 2 oz., 40c; 1/4 lb., 65c; lb., \$2.00

**EARLY YORK**—A leading early kind. Being rather small, it can be set closer than most others. The heads form rapidly, and are very tender and sweet. Usually not quite as large as the Jersey Wakefield.

Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; lb., \$1.50

## Second Early or Summer Varieties

**HENDERSON'S EARLY SUMMER**—A strong growing large header, somewhat conical in form; a better keeper (i. e., less liable to burst) than the average of early sorts.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**EARLY WINNIGSTADT**—A desirable kind, having conical, solid heads; a sure header under almost any condition; keeps better, and is less liable to suffer from blight, drought, or frost than most early varieties. Fine, and of excellent quality.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**EARLY DRUMHEAD**—A standard medium early variety. Heads large, round, slightly flattened, and excellent for the family or market garden. It does not crack, and keeps till well on in the winter.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**EARLY DWARF FLAT DUTCH**—A medium early kind, much resembling the Early Drumhead. It grows low on the stem, and is a sure header; firm, fine grained, tender, and excellent. Keeps almost as well as the late kinds.

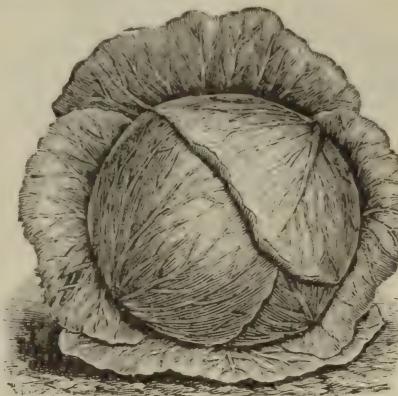
Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**SUCESION**—A medium early variety, producing large, round heads slightly flattened, which do not crack readily, and are solid and of excellent quality.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**ALL SEASONS**—Medium early, heads large,

slightly flattened; grows low on the stem, and resembles the Early Summer, except that the



heads are usually larger, of fine flavor, tender, and sweet, and superior for all purposes. It is also a good keeper, and can be used as a fall and winter variety.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**ALL HEAD EARLY**—An excellent early variety. Compact, round head; smooth, thick leaf; likely to become a general favorite.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

## Late Varieties

**LARGE LATE FLAT DUTCH**—A hardy, vigorous, and sure-heading sort; large, handsome, and solid; none better as a late market variety, especially for shipping purposes and for long keeping.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 55c; lb., \$1.75

**PREMIUM LATE FLAT DUTCH**—A leading late variety. Produces large, round heads, flattened on top; heads sure to form, keep well, and of excellent flavor, tender, and sweet. One of the best late market kinds.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 55c; lb., \$1.75

**PREMIUM DRUMHEAD**—An improvement on the Large Drumhead, grows lower on the stem, is larger, and matures earlier, but keeps quite as well, and has no superior in any respect for all family and marketing purposes, either for medium early or late crop. The seed we offer is unsurpassed by any in the market.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 55c; lb., \$1.75

**SUREHEAD**—Remarkable both for its certainty to head and its ability to withstand drought. Compact, medium to large.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 55c; lb., \$1.75

**DANISH BALL-HEAD or HOLLANDER**—A very hard heading, late variety, enduring both frost and drought remarkably. Introduced from Denmark, and rapidly gaining in popularity. Plants produce a solid, round head. Keeping qualities of the best.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**MARBLEHEAD MAMMOTH DRUMHEAD**—The largest variety known, cultivated mostly on account of its enormous size, usually averaging thirty pounds, but sometimes attaining double that weight. It is hardy and a good keeper, but coarser and not as well flavored as most other kinds. Its common English name of Cow Cabbage indicates one of the uses of this variety.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

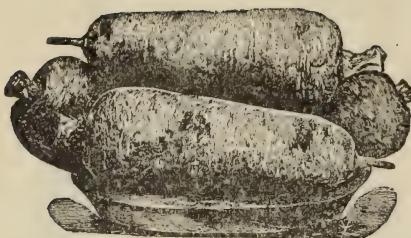
**RED DUTCH**—Forms a small, round, solid head of a deep red or purple color. Hardy and keeps well; used mostly for pickling and salads.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**DRUMHEAD SAVOY**—A large and firm variety of fine quality, leaves very much crinkled. The flavor is very much improved by a light frost.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

## CARROT



Sow as soon as the ground can be thoroughly prepared, in rows fifteen inches apart, and, when well up, thin to from four to six inches apart, according to the kind you are growing. The seed germinates slowly, requiring sometimes three weeks for the young plants to appear. To get a start of the weeds, soak the seed a day or two in tepid water, and roll it in sand, plaster, or wood ashes before sowing, or let the ground lie several days after it is prepared for the seed, when the weeds can be killed. The soil should be rich and loose, and it will produce smoother carrots if it is manured the year previous. Sow three pounds to the acre, or one ounce to one hundred and fifty feet of row.

**EARLY FRENCH FORCING HORN**—The earliest, quickest growing, and best for forcing. The root is thick, but very short; flesh deep orange, fine grained, and excellent; best for the table when not quite mature.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 65c

**EARLY SCARLET HORN**—The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 70c

**OX-HEART or GUERANDE**—A new variety, having a small top, but rather large, thick, heart-shaped root. The flesh is deep orange, fine grain-

ed, and excellent, for either the table or stock feeding.

**Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 70c**  
**EARLY HALF-LONG SCARLET, STUMP ROOTED**—A little later than the Horn varieties, but equal to them in grain and quality; has no hard core, and is not surpassed by any kind for either table use or stock feeding.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 65c

**CHANTENAY**—For table use, one of the best in shape and finest in quality; half long uniformy stump rooted, and smooth; color deep orange red; flesh crisp and tender. Early and a heavy cropper.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 65c

**DANVERS ORANGE, HALF LONG**—In form about midway between Long Orange and Short Horn. It is of a rich, dark orange color, very smooth and handsome, and easier to dig than most carrots. First class in every respect, both for the garden and field crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 65c

**FINEST LONG ORANGE**—The leading large, scarlet-fleshed variety, grown extensively for stock feeding, as well as for table use. For size of root, quality of flesh, and quantity of crop it has no superior. Requires a deeper soil than the short and half-long kinds.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c

**LARGE WHITE BELGIAN**—Extensively grown for stock feeding. The most productive of all. Grows much above ground, so that the entire crop can be pulled by hand. The White Belgian has recently been much improved, in the same manner as the Finest Long Orange, and is now larger and of finer quality than formerly. The stock we offer has no superior.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 45c

**SHORT THICK WHITE**—Half-long, thick, smooth, very productive, the heavier part above-ground, the root tapering to the point, flesh of good flavor, white, solid, and crisp.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**SHORT WHITE VOSGES**—Specially adapted for growing in shallow soils; short rooted, thick at the shoulder, easily handled, yields heavily; a growing favorite for stock feeding.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

## CAULIFLOWER

The cauliflower belongs to the cabbage family, and, from its superior qualities as a table vegetable, is a prime favorite. To insure success, a rich, moist soil should be selected. For early crop, start in hotbed; for later use, sow in open ground, transplanting to fifteen inches apart, in thirty-inch rows. Cultivate thoroughly, hilling up the earth around the stalks at each hoeing, and water well while the heads are forming.

**EARLY SNOWBALL**—By many considered one of the best varieties. A sure header, producing handsome, round, firm heads, of excellent flavor and quality. Heads large, mature early, and keep well all winter.

Pkt., 5c; oz., \$1.50; 2 oz., \$2.50; 1/4 lb., \$4.50

**EXTRA EARLY DWARF ERFURT**—Very dwarf, sure to head, and the earliest. The heads are of good size, pure white, very solid, of excellent quality, and delicate flavor.

Pkt., 5c; oz., \$1.25; 2 oz., \$2.25; 1/4 lb., \$4.00

**EARLY LONDON**—A leading early variety; a sure header, hardy, and easier of cultivation than many other kinds. The heads are large, solid, very white, tender and delicious.

Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., \$1.00

**EARLY PARIS**—A popular early sort. The heads are large, white, tender and excellent. Early and compact growing. A favorite with market gardeners.

Pkt., 5c; oz., 50c; 2 oz., 90c; 1/4 lb., \$1.65

**EARLY FAVORITE**—A certain header; large, white heads; tender and delicately flavored. A standard variety for early or late crop, and a good keeper.

Pkt., 5c; oz., 65c; 2 oz., \$1.25; 1/4 lb., \$2.00

**LENORMAND'S SHORT STEM**—One of the largest and most reliable for general cultivation. The heads are well protected by leaves, so that it is particularly valuable for growing in dry, hot localities.

Pkt., 5c; oz., 65c; 2 oz., \$1.25; 1/4 lb., \$2.00

**LARGE ALGIERS**—Upright, large, a sure header; heads well protected by leaves in the event of frost; has no superior in quality as a late variety.

Pkt., 5c; oz., 70c; 2 oz., \$1.25; 1/4 lb., \$2.25

## CELERY

The seed germinates slowly, and should be started in rich, mellow, open beds, in rows, to avoid crowding the young plants, and more easily keep them free from weeds. When two or three inches high, transplant to furrows, and when eight to ten inches high, fill up the furrows, continuing at intervals to hill up till fully matured and blanched, taking care not to get earth between the stalks. The vigor and quality of the stock are improved by partially topping when transplanting. Cultivate thoroughly, and keep well watered.

**GIANT PASCAL**—A new variety. It is large and of unusually rapid and vigorous growth. The stalks are easily blanched, firm, crisp and tender, of a beautiful golden tint, and possessing in a high degree the rich, nutty flavor which is the chief characteristic of superior quality in this popular salad plant. Our stock is the very best in the market.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.25



**GOLDEN SELF-BLANCHING**—A variety somewhat resembling the White Plume, and, like it, requiring but little earthing up to secure perfect blanching. It is of a rich golden tint when ready for the table; very handsome and of excellent quality.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 80c; lb., \$2.75

**GOLDEN-HEARTED DWARF**—A new variety of great value; splendid keeper, remarkable for its fine quality. Heart of bright golden color.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 45c; lb., \$1.40

**LARGE WHITE SOLID**—A standard variety, and one of the largest. A strong, vigorous grower, crisp, tender and of good flavor; firm, and keeps longer than most others.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.25

**EVANS' TRIUMPH**—A superior late kind; slow growing and a good keeper; large, crisp, white, sweet and excellent.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 45c; lb., \$1.40

**HARTWELL'S PERFECTION**—Not so large as Evans', but one of the best flavored varieties. The stalks are medium size, very crisp and tender, and of a fine, nutty flavor.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 45c; lb., \$1.40

**WHITE PLUME**—A new variety; popular on account of its naturally white leaf stalks, which require less blanching than other kinds. Tie the tops together, and hill up the earth slightly. Its handsome, plume-like top is very ornamental on the table. It is quite early and a fine market sort.

Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; lb., \$1.50

**DWARF WHITE SOLID**—Remarkable for its keeping qualities. A standard variety of good flavor, solid, and crisp. Being dwarf, it can be planted closer together than most other kinds.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.25

**CELERY SEED, FOR FLAVORING**—Seed used for flavoring soups, stews, pickles, etc.

Oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 30c

**CELERIAC or TURNIP-ROOTED CELERY**—A variety having turnip-shaped roots, which are used principally for seasoning meats and soups; also used for salads.

Large Smooth Frague.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 45c; lb., \$1.40

## Chervil

A sweet, aromatic plant, used as a salad while young and tender, also as parsley for garnishing, seasoning soups, etc. Sow thinly early in spring in drills a half inch deep and one foot apart; as the plants grow, they may be thinned out, or transplanted, if desired.

**CURLED**—The principal variety grown.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 oz., 30c; lb., \$1.00

## Chicory

Extensively used to adulterate coffee, and as a substitute for it. The culture is the same as for carrots. Dig at about the same time as carrots, wash, slice and dry by artificial heat. The blanched leaves are used by some for salad.

**LARGE ROOTED or COFFEE**—The best kind.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 80c

## Collards

A species of cabbage, known also as Cole, or Colewort, grown throughout the South for greens. Sow in autumn, in rows a foot apart, and treat the same as cabbage.

**TRUE GEORGIA or SOUTHERN**—The leading and best variety.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c; lb., \$1.00

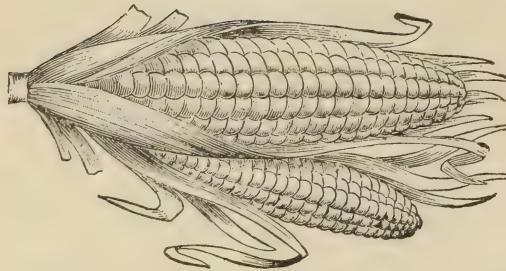
## CORN, SWEET OR SUGAR

(When corn by the pound is wanted by mail or express, prepaid, remit 10c per lb. extra, to cover charges; 10, 25 and 100-lb. lots by freight, charges collect.)

Corn thrives best in warm, rich soil. The smaller varieties may be planted ten inches apart in

drills made two and a half feet apart. The larger kinds should be planted a foot apart in drills made three and a half feet apart, or may be planted in hills three and a half feet apart each way, allowing three or four stalks to remain in a hill; the latter is the usual way, though in drills the product is greater per acre. Success can only be secured by thorough cultivation.

## CORN. SWEET OR SUGAR—Continued



**PEEP O'DAY NEW SWEET CORN**—Ten days earlier than any other; sweet, early, productive. You will not be disappointed in this New Sweet Corn. Recently introduced. Has pleased everyone who has tried it. For flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money maker for the market gardener, and a valuable addition to our list of corn for our short western summers.

Pkt. 15c; lb., 30c; 10 lbs., \$1.50

**MAMMOTH WHITE CORY**—A large and excellent early sort. Each stalk produces two or more handsome, twelve-rowed ears of large, white grain, of a quality superior to most early sorts.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**WHITE COB CORY**—An improvement on the Red Cobbed Cory, as well as being equally early. The ears are larger, and it has the further advantage of having both a white cob and white grain. A splendid market garden variety, and excellent for the table.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**EARLY MINNESOTA**—One of the earliest kinds of sweet corn. The ears are of the best quality; it is very productive. A popular early variety.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**CROSBY'S EARLY**—An early kind, producing well-filled ears of ten to twelve rows. It is remarkably sweet and tender, and considered by many superior to most other kinds.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**EARLY SWEET or SUGAR**—Excellent for general crop. Medium early, remaining in condition for the table a long time, tender and sweet.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**PERRY'S HYBRID**—A new variety; stalk of medium height. The ears are large, and grow low on the stalk. Kernels large, very white, tender and sweet.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**EARLY MAMMOTH**—Produces the largest ears of any variety, which are filled to the tip with large, full kernels, sweet, tender and delicious. The most popular variety for canning, also good for market or home use. The leading variety for a large and certain crop.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**STOWELL'S EVERGREEN**—Remarkable for remaining a long time in a fresh condition, suitable for the table. Hardy and productive, tender and sugary, and the best late variety for general use.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**EARLY EVERGREEN**—An improvement on Stowell's; similar in appearance and general character, but a week or ten days earlier, and remaining fit for use somewhat later than that well-known sort; equal to Stowell's in all other respects.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 9c per lb.

**BLACK MEXICAN**—One of the sweetest and best for the table. It is remarkably productive, and well suited to a warm climate. It is white and beautiful when in condition for cooking, but the kernels are bluish-black when ripe. Said to be less subject to the attacks of worms than other sweet kinds.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**COUNTRY GENTLEMAN**—A large-eared, late variety of sweet corn, of delicious quality.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**EXTRA EARLY ADAMS**—A very early variety, not strictly a sweet corn, but white and tender, and extensively used for the table.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**COMMON SWEET**—Used for general field crop for fodder. Sometimes sown thinly broadcast, but usually planted in hills or drills. Write for price.

### Field Corn

Corn is 10c a pound extra if sent by mail or express prepaid.

**EARLY RED BLAZED or KING PHILLIP**—An early, hardy variety, enduring considerable cold. Stalks of medium height, having few suckers. The ears are long, eight rowed, and well filled. Kernels bright yellow at the base, shading into red at the tips.

Pkt. 10c; lb., 10c; 10 to 25 lbs., 6c per lb.

**EARLY CANADA or YELLOW FLINT**—A rapid-growing early yellow kind, and on this account much used for replanting. Superior where the seasons are short.

Pkt. 10c; lb., 10c; 10 to 25 lbs., 6c per lb.

**EARLY WHITE FLINT**—A variety much used for making hominy. Productive, early, and of beautiful appearance.

Pkt. 10c; lb., 10c; 10 to 25 lbs., 6c per lb.

### IMPROVED LEAMING—YELLOW DENT

Ears nine to twelve inches long, eighteen to twenty rows; grains long and wedge shaped, indented at the outer end. Color rich yellow; small red cob. For general crop unsurpassed.

Pkt. 10c; lb., 10c; 10 to 25 lbs., 6c per lb.

**PRIDE OF THE NORTH, YELLOW DENT**—A very early Dent variety, thriving where there are cold, short summers. Ears and kernels handsome yellow.

Pkt. 10c; lb., 10c; 10 to 25 lbs., 6c per lb.

**CHAMPION WHITE PEARL**—A large white late Dent variety, pearly white kernels.

Pkt. 10c; lb., 10c; 10 to 25 lbs., 6c per lb.

### Corn, Broom

Requires similar soil and culture to corn, but to obtain the best quality of brush, the land should be rich, and well and deeply cultivated. Usually planted in drills three and a half feet apart, and thinned to four to six inches apart in the row.

**IMPROVED EVERGREEN**—An improvement on the common Evergreen. The result of many years' careful selection. Does not grow as tall as the old variety. The brush is fine, and of a light green tint.

Pkt. 10c; lb., 15c; 10 to 25 lbs., 9c per lb.

### Cress

The leaves, when young, have a warm, pungent taste, and are used as salad, either alone or mixed with other salad plants. The seed germinates quickly, and the plants grow rapidly. As they are milder and more tender when young, the seed should be sown at intervals of ten to fifteen days, making the first sowing as soon as the ground can be prepared. May be cut several times.

**CURLED or PEPPER GRASS**—The best garden variety.

Pkt. 5c; oz., 10c; 2 oz., 15c; ¼ lb., 20c; 1b., 50c

### Cress, Water

A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged. Sow the seeds thinly along the banks of any shallow stream, early in spring. It will increase rapidly, if the conditions are favorable, and reappear every spring, with no further attention, being a hardy aquatic plant.

Pkt. 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00

## CUCUMBER

Cucumbers need a warm, sandy soil, and should not be planted in open ground until the weather is settled and warm, as they will not thrive until the ground is thoroughly warmed. Plant in hills four feet apart each way, thinning to three or four of the strongest plants, after danger from insects is passed. Sprinkle the young plants with fine ashes, plaster, or air-slaked lime, to protect them from bugs.

**EARLY OR PEERLESS WHITE SPINE**—Even in shape at both ends, and uniform in size and color. In great demand for pickling, being the variety almost universally grown for the pickle factories of San Francisco. Also a fine market and table sort.

Pkt., 5c; oz., 20c; 2 oz., 30c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00

**EXTRA LONG OR EVERGREEN WHITE SPINE**—Has the characteristic White Spine qualities, but is longer than some other varieties, with smoother skin. A favorite early sort for forcing. The vine is a strong grower, and bears a fine crop of crisp, white-fleshed fruit.

Pkt., 5c; oz., 20c; 2 oz., 30c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00



**EARLY SHORT GREEN OR EARLY FRAME**—A vigorous and productive variety, producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table, or for pickling, while small.

Pkt., 5c; oz., 20c; 2 oz., 30c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00

**COOL AND CRISP**—Related to White Spine, but longer and more pointed at the ends. Especially tender and crisp, and a favorite for the table.

Pkt., 5c; oz., 25c; 2 oz., 35c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00

**CUMBERLAND**—A new variety, combining the good points of its parents,—Parisian Pickling and Early White Spine. Vine strong and prolific of large and excellent fruit.

Pkt., 5c; oz., 25c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**GREEN PROLIFIC OR BOSTON PICKLING**—A prolific bearer, fruit of medium size, rather pointed at the ends, bright green, and of good quality, especially for pickling.

Pkt., 5c; oz., 20c; 2 oz., 30c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00

**EARLY CLUSTER**—A productive early kind. The fruit, which is not large, is borne in clusters, and is crisp and of good flavor.

Pkt., 5c; oz., 20c; 2 oz., 30c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00

**EXTRA LONG GREEN**—Another good variety, tender and crisp; green, long and slim.

Pkt., 5c; oz., 20c; 2 oz., 30c;  $\frac{1}{4}$  lb., 35c; lb., \$1.00

**SMALL GHERKIN**—A distinct variety, not strictly a cucumber; fruit very short, but rather thick; used only for pickling.

Pkt., 5c; oz., 25c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**JAPANESE CLIMBING**—A sort of pole cucumber, its name being due to its origin and its tendency to climb and bear its fruit up from the ground, if afforded support; fruit large and thick.

Pkt., 5c.

## EGG PLANT

The egg plant, though not universally grown, is fast winning its way to more general use, and, properly served, is a most excellent dish. It will grow in any good garden soil, but the best results are obtained in a deep, rich, warm loam. The seed germinates slowly, and should be started in a hotbed, or well-protected, warm place, kept very

moist. Do not transplant till the weather is settled and the ground thoroughly warm. It thrives with the same treatment as that given to the tomato.

**EARLY LONG PURPLE**—Fruit rather long, usually largest at the blossom end; a hardy kind, productive, and of good quality.

Pkt., 5c; oz., 25c; 2 oz., 35c;  $\frac{1}{4}$  lb., 55c; lb., \$1.75

**EARLY ROUND PURPLE**—Fruit large, oval round, deep purple, tender, and excellent. Desirable for the family or market garden.

Pkt., 5c; oz., 25c; 2 oz., 35c;  $\frac{1}{4}$  lb., 65c; lb., \$2.25

**LARGE NEW YORK Improved Purple**—Similar in form to Early Round Purple, but a little later. Fruit large, of good quality, and produced abundantly.

Pkt., 5c; oz., 35c; 2 oz., 60c;  $\frac{1}{4}$  lb., 90c; lb., \$3.00

**BLACK PEKIN**—Oval round, of medium size, very dark, glossy and handsome. Flesh delicate and excellent. Prized for the family garden.

Pkt., 5c; oz., 25c; 2 oz., 45c;  $\frac{1}{4}$  lb., 75c; lb., \$2.50

## ENDIVE

The garden endive is much cultivated in Europe for winter salad. It is bitter until properly blanched, when it makes a fine salad, and is also used for greens. Sow at any time during spring, or later for winter use, in drills a foot apart. Thin from ten to twelve inches apart. Keep the ground clear of weeds until the plant has attained its full size, when it is blanched by gathering the leaves and tying them by the tips in conical form. The light and air are thus excluded from the inner leaves, which will be blanched in two or three weeks.

**GREEN CURLED**—The hardest variety; dark green, beautifully curled leaves, crisp and tender.

Pkt., 5c; oz., 15c; 2 oz., 25c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25

**WHITE CURLED**—Coarser and less tender than Green Curled, but very attractive on account of its color, even the outside leaves being very light colored, often white.

Pkt., 5c; oz., 15c; 2 oz., 25c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25

**BROAD-LEAVED BATAVIAN SCAROLE**—Has broad, thick leaves, which form a large, loose head. Fine for soups and stews. If blanched, by tying the outer leaves together, it makes an excellent table salad.

Pkt., 5c; oz., 15c; 2 oz., 25c;  $\frac{1}{4}$  lb., 40c; lb., \$1.25

## KALE OR BORECOLE

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves, that are tender and of excellent flavor. It requires the same treatment as cabbage, and is very hardy, being improved by frost.

**TALL GREEN CURLED SCOTCH**—Produces an abundance of dark green, curled leaves. Very hardy. The leading variety.

Pkt., 5c; oz., 15c; 2 oz., 20c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00

**DWARF GREEN CURLED OR GERMAN GREENS**—A dwarf variety, finer and more compact than the Scotch. Can be sown in the fall, for use early in the spring.

Pkt., 5c; oz., 15c; 2 oz., 20c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00

**DWARF GERMAN PURPLE**—A variety much prized by the Germans, and similar to German Greens, except that it has a deep purple tint. Very handsomely curled, and of good quality. Also hardy, and can remain in the garden all winter.

Pkt., 5c; oz., 15c; 2 oz., 20c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00

## KOHLRABI

Kohlrabi is a vegetable partaking somewhat of the nature and flavor of both the cabbage and turnip. The stem, just above the ground, swells into a bulb resembling a turnip, which is the edible part. It should be cut for the table before it is fully grown, as it becomes tough and stringy if allowed to grow too long. Sow as soon as the ground can be prepared, in drills, the same as turnips. Thin to six inches in the row, or transplant like cabbage.

**EARLY WHITE VIENNA**—Best table sort; pure white, medium-sized bulbs.

Pkt., 5c; oz., 25c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

## LEEK

The leek belongs to the onion family, and, on account of being milder and less pronounced in flavor, is preferred by many for soups and stews. It is very hardy, and may be sown as soon as the ground can be prepared, in drills fifteen inches apart, covering one inch deep.

**LARGE ROUEN, OR AMERICAN FLAG**—A

large, strong-growing variety, of good quality, and hardy. The leading market kind.

**Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.25**

**MONSTROUS CARENTON**—Rather larger than the Flag, and very tender and mild, on account of its rapid growth.

**Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c; lb., \$1.50**

## LETTUCE

Lettuce will thrive in any good garden soil, and requires so little care that all who have the ground at their disposal should raise enough for their own use, and especially as the quality depends almost entirely on its crisp freshness. Where severe frosts prevail, it may be sown under cover in fall, and transplanted, and in milder localities as soon as the soil can be thoroughly prepared, in open ground, in drills fifteen inches apart. Thin out by using the larger plants as soon as of sufficient size, and so continue until the crop is exhausted. Keep the ground moist and loose, and the bed free from weeds.

**EARLY TENNIS BALL, SEED BLACK**—The plant is small, of rapid growth, and should be used as soon as large enough, as it quickly runs to seed. Solid head, leaves dark green, thick, and crisp. One of the best for growing under cover and for forcing.

**Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c; lb., \$1.00**

garden and immediate prepared for the table, it has no superior.

**Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c**

**BIG BOSTON, SEED WHITE**—A splendid winter variety in the South, and a large header; in the North a favorite forcing sort; leaves broad, smooth and tender. Its all-around excellence makes it a popular market variety.

**Pkt., 5c; oz., 10c; 2 oz., 20c; 1/4 lb., 30c; lb., \$1.00**

**SIMPSON'S EARLY CURLLED, SEED WHITE**

—A leading market variety, used for very early planting and forcing. Forms a dense mass of finely curled and wrinkled leaves that are excellent and tender, and do not wilt readily.

**Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c**

**SAN FRANCISCO MARKET, BLACK SEED**

Large, solid heads, bearing transportation well. Color beautiful medium light green; opens very white; tender and sweet. Undoubtedly a desirable acquisition as a market or family variety.

**Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c; lb., \$1.00**

**LARGE HANSON, SEED WHITE**—This variety forms the most perfect heads of any. They are small, creamy white inside, and very tender, but should be used young, as they are liable to become bitter with age, or when they mature slowly. An excellent market kind, longer in running to seed than any other.

**Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 75c**

**LARGE DRUMHEAD, SEED WHITE**—A leading market variety, and one of the largest heading kinds, but the heads are not as solid as the Hanson or Deacon. It is slow running to seed, white, crisp and tender.

**Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c**

**DENVER MARKET, SEED WHITE**—The chief characteristic of this sort is that it has a beautifully curled savoy-like leaf, which gives it a very attractive appearance. It is also a Drum-head variety of very excellent quality, and extremely early. Sure to enjoy great popularity.

**Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 80c**

**GRAND RAPIDS, SEED BLACK**—A large, attractive variety that matures early, a favorite with market gardeners for keeping in good condition longer after being cut than other sorts. Fine for green-house forcing.

**Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c; lb., \$1.00**

**WHITE PARIS COS OR ROMAINE, SEED WHITE**—A distinct variety, forming oblong, upright heads, largest near the top. It is hardy, tender and crisp, and does not run to seed as quickly as some other Cas varieties, of which it is generally considered the best.

**Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 80c**



**BLACK-SEEDED SIMPSON'S**—An excellent variety, and not as generally grown as its merits justify. It has all the good qualities of Simpson's Early Curled, which it resembles, but is larger, lighter colored, and the leaves are less curled. It is one of the tenderest and sweetest, and remains so longer than most other kinds.

**Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c**

**EARLY PRIZE HEAD, SEED WHITE**—An early variety, not strictly forming a head, but a dense cluster of beautifully bronzed leaves, that are remarkably tender and sweet. Slow to run to seed, remaining long in condition for the table. Too delicate and tender for market gardening, but for family use, where it can be taken from the

## MELON, MUSK

The melon is so universally grown, and so justly popular, that it requires but little description. Of semitropical habit it comes to its full state of perfection in the rich sandy loams and warm valleys of the Pacific Slope and Southern States. Under the above head all the green and yellow-fleshed Cantaloupes and Nutmeg Melons are classed.

## Green-Fleshed Kinds

**EARLY JENNY LIND**—A small, very early variety, flattened at the ends, medium to small in size. The flesh is very sweet and juicy.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**SMALL GREEN NUTMEG**—A variety resembling the Jenny Lind, and ripening nearly as early. The flesh is fine and very sweet. Superior for the early market or family garden, and a favorite for hotels and restaurants.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**EXTRA EARLY HACKENSACK**—A variation from the last preceding, much favored by some; coarser netting and deeper ribs. Green flesh, sweet and juicy.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**EARLY BALTIMORE or ACME**—A good-sized oval-round, very desirable variety. The flesh is thick, highly flavored and sweet. Popular in the markets of the Eastern and Southern cities.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**LARGE NETTED CANTALOUP**—A rather large variety, medium early, of excellent quality; desirable either for the family or market garden.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20



**NETTED GEM, or ROCKY FORD**—A kind that has attained great popularity; on the small or basket melon order. Shape oval, very sweet, with exceedingly smooth-grained flesh. Slightly ribbed and covered with coarse netting.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c; lb., \$1.00

**LARGE GREEN NUTMEG**—An improved variety of the old Green Nutmeg; has all its good qualities, combined with larger size, thicker and firmer flesh, and a more vigorous vine. About as early as the Large Netted Cantaloupe, which it resembles.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**LARGE MONTREAL**—A large variety, ripening medium early; not deeply ribbed nor netted. The flesh is thick, firm and excellent; keeps well after taken from the vine; a good market kind.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**HACKENSACK**—A large, prolific variety, growing in favor; oval round, flattened at the ends, deeply ribbed and netted. The flesh is delicious, juicy and sweet. A good market kind.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**BAY VIEW**—Fully as large as the Casaba, but a handsomer melon, ripening earlier. The flesh is

rich and melting, and will ripen well if taken from the vine a little green, which makes it one of the best market kinds.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

## Yellow or Orange-Fleshed Varieties

**EARLY YELLOW CANTALOUP**—Similar to the Surprise, but usually larger, not ripening quite as early, and deeper ribbed. Good for the family or market garden.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**PETOSKEY or PAUL ROSE**—A sweet, yellow-fleshed melon, somewhat resembling the Netted Gem in size and appearance; firm, oval in form, of fine quality and flavor.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c

**OSAGE or MILLER'S CREAM**—Medium size, shallow ribs, and thin netting; color deep green; flesh a decided salmon in color, and good clear down to the rind.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

**EMERALD GEM**—Medium size, rather deeply ribbed, not netted, but smooth and handsome. The flesh is as thick as the Christiana, but pronounced sweeter and more delicate flavored. It ripens early, and is very prolific.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.20

## MELON, WATER

The watermelon, in its origin and habits, is similar to the muskmelon, and should receive the same cultivation and treatment, except that the hills should be farther apart.

**PHINNEY'S EARLY**—A valuable early kind, producing an abundant crop. Rather long, rounded at the ends. It is mottled with stripes of dark and light green; thin, firm rind; flesh of excellent grain and quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**ICE-CREAM or PEERLESS**—Rind pale green, mottled, nearly round; flesh bright scarlet, very sweet and delicious; excellent for the family garden. A standard variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**LODI or SAN JOAQUIN**—A great producer, and very popular in California. Cylindrical shape; uniform medium size; rind yellowish green, thin, and firm; seeds large, ashy white; flesh dark pink, firm, ripening well to the core, sweet and delicious. It holds its place in the market after being tested for many years.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**FLORIDA FAVORITE**—Large and long, mottled dark green, with lighter stripes. Rind firm; flesh deep red. Popular in the South generally.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**SWEETHEART**—Takes almost first place as a favorite in the East. Large, handsome, and a good shipper. In color, bright mottled green; in form, almost oblong, its thickness about two-thirds its length. Flesh bright red, firm, crisp, and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**KOLB'S GEM**—Very large, oval shaped, deeply mottled; vines vigorous and remarkably productive. Flesh bright scarlet, solid, and sweet. Rind thin, but very firm. Can be safely shipped long distances.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**MOUNTAIN SWEET**—Medium size, long, rather square at the ends, sometimes slightly curved; rind dark green; flesh deep red and firm, but ripening well to the core. A good market kind.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**GIPSY or SOUTHERN RATTLESNAKE**—Above the average in size, a strong grower and good bearer, mottled and striped dark and light green; long, rather square at the ends; firm rind; flesh deep scarlet, of excellent grain and quality; ships well, and is a good market or family garden variety.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

## MELON, WATER—Continued

**DIXIE**—This is a new melon of excellent quality. Flesh red and tender, ripening evenly and all good; size medium to large; skin dark green, beautifully mottled, and very attractive. A heavy cropper, and fine for shipping or home use.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**KLECKLEY'S SWEETS or MONTE CRISTO**

—A strong-growing and prolific variety; medium size; skin mottled in dark and light green stripes; flesh red, tender and sweet. Not firm enough for shipping long distances.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**DARK ICING or ICE RIND**—A distinct variety, resembling in size and shape the Peerless or Ice-cream, but is lighter in color, and faintly mottled. The rind is not thick, but rather firm. The flesh is remarkably juicy, sweet, and delicious.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**LIGHT ICING or JORDAN'S GRAY MONARCH**

—A very large variety; light green in color; flesh light red, tender, and sweet. Considered by many the best melon grown.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**CUBAN QUEEN**—The largest variety known, having attained a weight of one hundred pounds in California. Oval round, dark and light green mottled stripes of pronounced shade; vines not

large, but vigorous; flesh deep scarlet and firm, ripening well to the core. A good shipper for so large a melon.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**BLACK SPANISH**—A round melon of medium size; rind very dark green, thin, but firm; seeds black. The flesh is deep scarlet, firm, with no hard center, and is remarkably sweet and delicious. One of the best for the family garden; also much used for marketing.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

## MUSHROOMS

The mushroom is an edible fungus that does not produce seed, but is propagated from the white fibers, resembling roots, that spread from the base of the stool, termed spawn. It is grown in out-buildings, cellars, caves, or wherever a uniform temperature of 60 degrees to 70 degrees can be maintained. Make beds of fermenting manure, which should be large and deep enough to acquire a heat of about 70 degrees. When at the proper temperature, insert bits of spawn at intervals. As soon as signs of growth appear, place two

inches of soil over them, and cover all with straw. Water is used, if necessary, which should be warmed to the temperature of the bed. Mushrooms appear in six or eight weeks, and should be collected when at the proper size for the table. More complete directions are contained in each box.

French Mushroom Spawn is supplied in boxes and English in bricks.

**ENGLISH**—1-lb. bricks, each, 35c, prepaid.

## MUSTARD

A hardy, pungent plant, highly esteemed by many as an appetizing salad, for which purpose it should be cut when two or three inches high. It is also used, when larger, as greens. The seed has an extensive sale, and is used in its natural state and prepared. It should be sown in rich, mellow soil, as early as the ground can be well prepared, in drills fifteen inches apart.

**SOUTHERN GIANT CURLED**—Highly esteemed in the South, where it is sown in the

fall, and produces enormous bunches. Excellent for salad, and very generally used for greens, for which it is largely cultivated.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 80c

**YELLOW CALIFORNIA or WHITE ENGLISH**

—Leaves mild, tender when young, and generally preferred for salad. The seed, which is light yellow, is largely used with pickles and in salads.

Pkt., 5c; oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 30c

## NASTURTIUM

(*Tropaeolum Majus*)

The nasturtium is very popular as an ornamental plant, and also for the table. The leaves when young are used as salad, and also in connection with the flowers for garnishing, and the seeds for capers and pickles, for which purpose they should be gathered while green and tender. It is hardy, and may be planted as soon as the ground can be prepared, beside a fence, trellis,

or other convenient support, where it will grow rapidly and climb high.

**TALL MIXED GARDEN**—Mostly used, as they produce the largest seeds. They have also very handsome foliage and beautiful flowers. For Lobbianums and fine Dwarf varieties, see Flower List.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 80c

## OKRA OR GUMBO

Extensively grown in the Southern States and California, where it may always be seen in the markets, either green or dried. Its peculiarly ribbed seed pods are much used in soups, and may be stewed and served as asparagus.

**DWARF**—Best for general crop. The plant is dwarf, but the pods are as long as the larger-growing kinds, and are produced much more abundantly.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c

## ONIONS

55

15

Onions can be successfully grown on almost any soil that will produce a full crop of corn; land that has been cultivated with hoed crops and kept free from weeds and well manured for two years previous is very much preferred. Manure evenly at the rate of about fifty cart-loads to the acre; the manure must be thoroughly mixed with the soil and all well pulverized. Sow, as soon as the ground can be prepared, about one-half inch deep, and keep perfectly free from weeds.

Crops very short and prices subject to change any time.



**EXTRA EARLY LARGE RED GLOBE**—A large, early, rapid-growing kind. Skin deep purplish red; flesh white, mild, and unusually sweet. Best for early use, as it does not keep long. If the old ripe onions of this variety are set out in the spring, the old onion will run up to seed and the bottom disappear; but one or more new onions will grow from it, and quite a crop can be produced in this way, with very little trouble.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.00

**EXTRA EARLY RED FLAT**—Deep red in color; resembles the Red Wethersfield, except that it is much earlier and somewhat smaller; desirable for early market.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.00

**LARGE RED WETHERSFIELD**—A standard variety, one of the most productive kinds, even on poor soil. Its good keeping qualities render it one of the best for shipping. Large, slightly flattened, deep purplish red. Flesh coarser and stronger than the Early Red Globe, but rich and nutritious.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.50

**GIANT WHITE ITALIAN TRIPOLI**—Resembles somewhat the American White Portugal, but is much larger. It is flat, pure white, mild, and of good flavor.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 80c; lb., \$2.50

**AUSTRALIAN BROWN**—Beautiful yellowish brown in color, slightly globular in shape, of good size, and mild flavor. Decidedly the hardest, most solid, and longest-keeping onion yet offered to the public.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 80c; lb., \$2.50

**YELLOW GLOBE DANVERS**—A uniformly globe-shaped, handsome variety; bright color; long keeper and heavy yielder.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 80c; lb., \$2.50

**YELLOW DANVERS**—The leading large yellow kind, round, slightly flattened, flesh fine grained, rather mild, very rich and sweet. One of the best keepers and shippers, and one of the most productive kinds.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 80c; lb., \$2.50

**SPANISH KING OR PRIZE TAKER**—An immense light golden-yellow onion, originating in Spain; recently sprung into great popularity; very attractive.

Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 80c; lb., \$2.50

**WHITE PORTUGAL OR AMERICAN SILVER SKIN**—A large, flat, silver-white onion, mild in flavor, and very handsome. A great favorite for

use when young as salad and for pickles. It is a good keeper, and fine for fall and early winter use.

**WHITE GLOBE**—A handsome, white, globe-shaped variety; flesh fine, very white, rich, and sweet. It is also one of the best keepers of the silver-skinned kinds.

Pkt., 5c; oz., 25c; 2 oz., 35c; 1/4 lb., 80c; lb., \$2.50

**MAMMOTH SILVER KING**—An immense white onion of mild flavor, very thick through, but inclined to be flat rather than globe shaped.

Pkt., 5c; oz., 35c; 2 oz., 65c; 1/4 lb., 80c; lb., \$2.50

**EL PASO OR LARGE MEXICAN**—One of the largest onions grown, frequently attaining a weight of three pounds or more. Color mostly white, but sometimes tinged with yellow and red. Flesh rather coarse, but of excellent flavor, mild, rich, and sweet. Very popular in Mexico, where it is the leading variety grown.

Pkt., 5c; oz., 25c; 2 oz., 45c; 1/4 lb., 75c; lb., \$2.75

**QUEEN**—White, early, handsome, and a good keeper. If sown thick, produces small, very firm bulbs, the best of all for pickling; if given more room, matures an excellent onion, that will keep all winter.

Pkt., 5c; oz., 35c; 2 oz., 65c; 1/4 lb., \$1.00; lb., \$3.00

**EARLY BARLETTA**—Small white, said to be the earliest of all; quite similar to the Queen.

Pkt., 5c; oz., 35c; 2 oz., 65c; 1/4 lb., \$1.00; lb., \$3.00

## ONION SETS

**BOTTOM ONION SETS**—Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand, they make ripe onions of the best quality, and come to maturity some six weeks earlier than a crop grown direct from the seed. Yellow sets are most in demand, but Red and White are used to some extent. Sow forty to sixty pounds of black seed to the acre to raise sets.

Yellow, 1b., 30c; 100 lbs., \$12, by freight, charges collect.

## PARSLEY

Parsley is very generally used for garnishing, and seasoning soups and stews. It can be used fresh from the garden, or dried and rubbed into a fine powder, when it can be bottled for winter use. It becomes finer and more beautifully curled if cut frequently. As the seed germinates slowly, it should be soaked a few hours in warm water, and sown in drills a foot apart and half an inch deep, as early in spring as possible. Thin to three or four inches apart. Thrives best in deep, rich soil.

**MOSS CURLLED OR FERN LEAVED**—A beautiful fern or moss-like variety. The best for garnishing.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**FINE TRIPLE CURLLED**—Fine for seasoning; also good for table decoration.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

## PARSNIP

The parsnip is nutritious and wholesome, with a sugary sweetness peculiar to itself, and is superior both for the table and for stock feeding. It yields a large crop, and is said to be more valuable for dairy cows than either the carrot or turnip. As the seed germinates very slowly, sow as early in spring as possible, in drills fifteen inches apart, on deeply-cultivated, rich, loamy soil. Keep clear of weeds and thin to three or four inches apart. The roots are improved by freezing.

**LONG DUTCH SUGAR**—A fine-flavored, standard variety. Long, large roots. Sweet and sugary.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**HOLLOW CROWN**—Fine, smooth roots. The best for general use. Productive and excellent.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

## PEAS

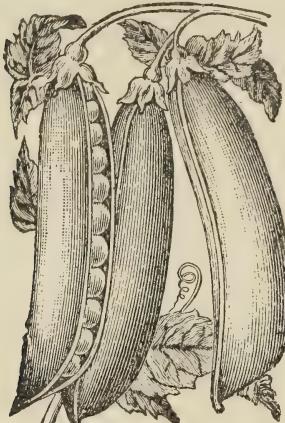
(When peas by the pound are wanted by mail or express, prepaid, remit 10 cents per pound extra for charges; 10, 25, and 100-lb. lots by freight, charges collect.)

While almost any soil will produce good peas, yet, like most other vegetables, they respond to liberal treatment and careful cultivation. Well-rotted stable manure and bone dust make excellent fertilizers for this crop. Deep plowing is of the greatest importance. For early peas, plant as soon as the ground can be worked, in light, well-drained soil and a sunny exposure. For the main crop a heavier soil may be selected. They are

usually planted in double rows, about four feet apart, and three inches deep. Bush those that require it, when six inches high. The field crop may be sowed broadcast.

Our garden peas have been grown from selected seeds, are true to name, have been carefully hand-picked, and are fit for gardeners' use at once. We ask our customers not to confound them with the common peas usually found in the market at a low price, which are only fit for field use or for feeding stock. Our list includes the best kinds, and is sufficiently varied to meet the wants of all.

## Extra Early Peas



**FIRST AND BEST**—Unsurpassed for early and even ripening. One of the very best for market gardeners, as the whole crop ripens within a few days, so that the ground may be cleared and another crop planted. About forty-five days is the average from planting until the whole crop is ready for market.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**ALASKA or EARLIEST OF ALL**—Earliest and best of all the blue, smooth varieties, coming into pod as soon as the Extra Early. Height, two to two and a half feet.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**AMERICAN WONDER**—One of the earliest sweet wrinkled kinds in cultivation; constantly coming into more general use. It is a wonderfully productive dwarf variety, the pods being large and well filled. The pea is rather above the average in size, and very sweet and delicious. Height nine inches.

Pkt., 10c; lb., 15c; larger quantities, write for price.

## Extra Early Varieties

When peas by the pound are wanted by mail or express prepaid, remit 10 cents per pound extra for charges; 10, 25 and 100 pound lots by freight, charges collect.

**NOTT'S EXCELSIOR**—One of the best Extra Early sweet wrinkled kinds. Resembles the American wonder, but the plants are larger and more vigorous; quite distinct from that or the Premium Gem.

Pkt., 10c; lb., 15c; larger quantities, write for price.

**MCLEAN'S LITTLE GEM**—A sweet, wrinkled pea, coming in a little later than the American Wonder; grows taller, and continues in bearing longer. The quality of the pea is very superior. Height fifteen inches.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 10c per lb.

**PREMIUM GEM**—One of the earliest dwarf,

green, wrinkled varieties. Prolific and of fine quality. Similar to the Little Gem.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 10c per lb.

**DWARF TELEPHONE**—Very similar to the large or tall Telephone, growing about 1½ feet tall and quite early. A favorite sort with our market gardeners.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 10c per lb.

**GRADUS**—This valuable creation fills a place not heretofore occupied by any kind of peas, especially for the home garden. It is extra early, producing immense pods that are filled with large, sweet, wrinkled, dark green peas of finest quality. Every family and gardener should try it.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 12½c per lb.

## Second Early Peas

**MCLEAN'S ADVANCER**—A green, wrinkled sort, bearing fine, broad pods. Comes in next after the Gems. Popular market kind, and used extensively by canners. Height two and a half feet.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 9c per lb.

**ABUNDANCE**—Medium early, very sweet and wrinkled, peas fair size, pods well filled. Next in earliness to Advancer. Height one and a half to two feet.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 9c per lb.

**HORSFORD'S MARKET GARDEN**—Another favorite among the sweet wrinkled varieties. Vines medium height, very prolific; peas medium size, dark green, fine flavored. Excellent for canning.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 9c per lb.

**EVERBEARING**—Large, sweet, wrinkled, medium early, large pods, cooks quickly, perhaps not quite as sugary as some others, but very desirable. Height one and a half to two feet.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**TELEPHONE**—This variety has now come into general use, and is acknowledged to be of great merit. Peas large, wrinkled, very sweet; pods enormous and well filled. Height four feet; medium late.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 9c per lb.

## General Crop—Late Peas

**YORKSHIRE HERO**—One of the largest sweet wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late; bears a long time; height two and a half feet.

Pkt., 10c; lb., 10c; 10 to 25 lbs., 7c per lb.; 100 lbs., \$5.00.

**STRATEGEM**—A sweet, wrinkled variety, introduced from England. Vines not large, but of vigorous growth, producing a heavy crop; beautiful, long pods, well filled with large peas of good quality; two feet.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 9c per lb.

**CHAMPION OF ENGLAND**—The leading late sweet, wrinkled pea. Vines large, luxuriant, and very prolific. For either family use or the market garden it has no superior; five feet.

Pkt., 10c; lb., 15c; 10 to 25 lbs., 8c per lb.

**LARGE WHITE MARROWFAT**—A leading kind for the main crop; of vigorous growth; pods long, and well filled with large, smooth peas, that are of a creamy color, and very handsome when ripe; four feet.

Pkt., 10c; lb., 10c; 10 to 25 lbs., 7c per lb.

## GENERAL CROP—LATE PEAS—Continued

**BLACK-EYED MARROWFAT**—Similar to the White Marrowfat, but the vine is smaller, and the pea has a black eye. Yields heavily; three feet.

Pkt., 10c; lb., 10c; 10 to 25 lbs., 7c per lb.

## Edible Podded Peas

**TALL SUGAR, BROWN SEEDED**—A variety

of pea of which the pod has not the tough lining common to other varieties, therefore pods can be cooked and eaten same as string beans. This variety grows about four feet high; pods large, tender, sweet, and succulent.

Pkt., 10c; lb., 20c.

## PEPPER

Sow the seeds early in hotbeds, or later, when the weather becomes warm, in open beds; when two or three inches high, transplant to a warm, yellow soil, in rows eighteen inches apart and foot apart in the row. Guano and hen manure are excellent fertilizers, and will greatly increase the yield.

**LARGE BELL or BULL NOSE**—A large, mild, thick-fleshed variety. One of the best for stuffed pickles.

Kt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**SWEET SPANISH or MOUNTAIN**—Similar to the Large Bell, but usually larger. Excellent for pickling and stuffing.

Kt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**SQUASH or TOMATO SHAPED**—Pods short, thick, and ribbed at the point. They are very productive, fleshy and mild, and excellent for pickling.

Kt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**CHILI**—Produces small, pointed pods, that are

a brilliant scarlet, and very pungent when ripe. Used largely in the manufacture of pepper sauce.

Pkt., 5c; oz., 25c; 2 oz., 45c;  $\frac{1}{4}$  lb., 80c; lb., \$2.50

**RED CHERRY**—The pods are small, round, glossy scarlet, and very handsome when ripe. Excellent for mixing with pickles.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**LONG LARGE RED**—This kind is planted to produce the article known as "Dried Chili," constantly found in the California and Mexican markets. It is large at the stem, tapering to a point at the tip, measuring three to five inches in length. Seeds and pods very pungent. Esteemed for seasoning various dishes.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**LONG RED CAYENNE**—Brilliant, coral-red pods, three or four inches long, and a prolific bearer. Very pungent, and used very largely with pickles when green.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

## PUMPKIN

Pumpkins, though sometimes used for cooking, do not compare favorably, as a table vegetable, with the finer varieties of squash, but are better adapted and more profitable for stock feeding; they do not require as rich soil as melons, and the hills should be farther apart; otherwise the treatment should be the same.

**LARGE SWEET CHEESE**—Large, flat, dishing the ends; flesh very thick, sweet, and nutritious. More nearly related to the squash than to the Large Yellow. Fine for the table.

Kt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 50c

**MAMMOTH**—The largest known, often weighing over one hundred pounds. Oval round, deep orange, slightly mottled; flesh not thick, but, on account of its enormous size, yields a very large amount of feed per acre. Also used for the table.

Pkt., 5c; oz., 15c; 2 oz., 20c;  $\frac{1}{4}$  lb., 30c; lb., \$1.00

**LARGE YELLOW or CONNECTICUT FIELD**—A large, round variety, sometimes depressed at the ends; rind of a deep, glossy yellow. Vines vigorous and very productive. If protected, will keep well till midwinter.

Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 45c

## RADISH

The radish is cultivated for its root, which should be eaten when young and tender, as it matures it becomes strong, tough, and pithy. Should be sown for early use as soon as the ground can be well prepared, and for succession, intervals of two or three weeks throughout the season, in rich, loose, warm soil, as the quality depends largely on its rapid growth. Sow in rows a foot apart, and thin to two inches in the row by using the largest ones as soon as of sufficient size for the table. Keep free from weeds and well watered. In the heat of summer select a cool, shady place.

six to eight inches long, standing nearly half above ground; bright scarlet, smooth, crisp, tender, and mild.

Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 60c

**WOOD'S EARLY FRAME**—Shorter and thicker than the preceding; a good variety for forcing, and one of the best for first crop in the open garden.

Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 60c

**LONG, BRIGHTEST SCARLET WHITE TIPPED**—Something new in the way of a long radish, and proving itself very useful and worthy of general cultivation; color strikingly bright scarlet; tip white; general appearance very attractive. It is extra early and the flesh is very tender. Valuable for forcing or open ground.

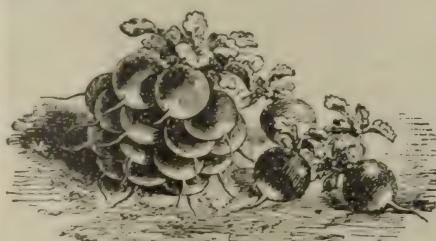
Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 65c

**SCARLET CHARTIER, WHITE TIPPED**—Roots long, tapering rather abruptly, and attaining a very large size. Of rapid growth, it is soon ready for the table, remaining crisp and tender till fully grown. Color scarlet above, shading into white at the tip. Flesh white and mild flavored.

Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 60c

**EARLY OLIVE-SHAPED or HALF LONG SCARLET**—An excellent variety, of rapid growth, skin thin, flesh rose tinted and very tender; two or three inches long, with slender taproot.

Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 20c; lb., 60c



**EARLY LONG SCARLET**—The leading variety for the family or market garden. From

**RADISH**—Continued

**FRENCH BREAKFAST** or **HALF LONG SCARLET, WHITE TIPPED**—Medium size, of quick growth, crisp, and tender; terminates more abruptly than the Half Long Scarlet; lower end and taproot white.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c  
**HALF LONG DEEP SCARLET**—A handsome variety, somewhat resembling the Olive Shaped, but of a deeper scarlet, and having a smaller top. Flesh tender and of the best quality; good for forcing.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 65c

**EARLY SCARLET TURNIP ROOTED**—The leading turnip-shaped kind. Deep scarlet, small taproot; very crisp and tender. Of rapid growth, and, if sown with others, the first ready for the table. One of the best for forcing.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c

**EARLY SCARLET TURNIP, WHITE TIPPED**—Similar in shape and size to the Scarlet Turnip Rooted, only that the under side of the bulb and taproot are white.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 65c

**NON-PLUS ULTRA or EARLY ROUND DEEP SCARLET FORCING**—A handsome early kind. Deep scarlet, smooth, and crisp; very showy when served with the White Turnip Rooted.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 65c

**EARLY WHITE TURNIP ROOTED**—The best white turnip-shaped variety; pure white, small top, mild and crisp. Ready for the table in six weeks after planting.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 65c

**LONG WHITE VIENNA or LADY FINGER**—The best long, white radish grown; pure white, long, tender, and sweet; a favorite also for its beauty of form and rapid growth.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 65c

**RAPE**

**DWARF ESSEX**, for Sowing—This plant is used for pasture or for turning under as a green manure; valuable for sheep. Sow in drills at the rate of five pounds to the acre, or broadcast, ten pounds.

Pkt. 5c; oz., 10c; lb., 30c.

**RHUBARB OR PIE PLANT**

Rhubarb is extensively raised near all large cities, and should be more generally grown, as it is ready for use before most kinds of fruit are in the market. Its culture is very simple, and it yields every spring an abundance of leaf stalks, which are delicious when made into pies, tarts, and sauce. Sow in drills eighteen inches apart, and thin the plants to six inches. In the fall, trench or subsoil a piece of ground, manure very heavily, and transplant the young roots into it, three feet apart each way. Give a heavy dressing of manure annually and cut off the seed stalks as they appear, to prevent the plants from exhausting themselves by running to seed. The seed cannot be relied on to produce the same variety.

Pkt. 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c; lb., \$1.25

**SALSIFY OR VEGETABLE OYSTER**

Salsify is a nutritious and wholesome vegetable, having the appearance of a small parsnip, in flavor closely resembling oysters, for which it is, in that respect, a good substitute. It is rapidly coming into more general use. Sow early in the spring in drills a foot apart, and, when two or three inches high, thin out to three or four inches. Its general culture is the same as that recommended for carrots. The roots are perfectly hardy, and may remain in the ground during winter, or may be stored in dry earth or sand.

**MAMMOTH SANDWICH ISLAND**—The leading variety; produces a large crop of straight, smooth roots.

Pkt. 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 35c; lb., \$1.25

**LARGE WHITE**—An early kind; tender and excellent.

Pkt. 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 35c; lb., \$1.25

**WHITE STRASBURG**—One of the best of the large summer sorts; it covers a long season, as it is good when quite small. The roots are long, very white, crisp, and tender.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 70c

**ROUND BLACK SPANISH, FALL or WINTER**—Very hardy, and good for winter use. If stored in sand, will keep good all winter. The roots which present a rusty black appearance, are large firm, and not liable to become pithy.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c

**LONG BLACK SPANISH, FALL or WINTER**—Very hardy, and good for winter use. If stored in sand, will keep good all winter. The roots which present a rusty black appearance, are large firm, and not liable to become pithy.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 60c

**GOLDEN GLOBE or GOLDEN SUMMER**—Its chief peculiarity is its russet skin; form round; flesh solid, white, and pungent.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 65c

**SCARLET CHINA, WINTER**—A half-long variety, largest near the taproot; skin bright scarlet; flesh firm and more pungent than most others. It is easily kept all winter.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 80c

**MAMMOTH CALIFORNIA or WHITE CHINA WINTER**—Extensively grown by the Chinese who introduced it into California. It has now become popular among all classes. Very large and cylindrical, terminating abruptly, with little taproot; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white.

Pkt. 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 80c

**SPINAGE**

A wholesome, palatable, hardy vegetable, much used for greens. It is easily grown, and may be had during the entire season. It will grow on almost any soil, but is more tender and succulent when grown in soil heavily manured and well pulverized. For a summer crop, sow early, in drills a foot apart, and thin gradually to six inches apart. For early spring use, sow in the fall, and protect in cold climates with a covering of straw. It should be cut back, using only the young leaves; the old ones are tough and stringy.

**NEW ZEALAND, (new)**—A favorite sort with Eastern market gardeners.

Pkt. 5c; oz., 15c; 1/4 lb., 25c; lb., 75c

**SAVOY LEAVED**—A very early variety, of upright growth and pointed leaves, which are crinkled, like Savoy Cabbage. Grows quickly and seeds early. Plant in autumn for early spring use.

Pkt. 5c; oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 40c  
**ROUND SUMMER**—An excellent variety for early spring sowing. The leaves are round, thick and fleshy. Good for early market gardening.

Pkt. 5c; oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 40c

**IMPROVED THICK LEAVED**—The leaves of this variety are unusually thick, fleshy and tender. It is also hardy, and may be sown as soon as the ground can be thoroughly prepared.

Pkt. 5c; oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 40c

**VICTORIA**—This variety produces the largest leaves of any, yielding an enormous crop. Excellent for the family or market garden.

Pkt. 5c; oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 40c

**LONG STANDING**—An improved variety, having thick leaves, that remain tender longer than any other, and on this account one of the best for market gardeners.

Pkt. 5c; oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 40c

**LARGE PRICKLY SEEDED**—The hardies kind, and may be sown in the fall, only requiring protection during the most severe frosts. The seed is prickly, the leaves rather long and pointed, but thick and succulent.

Pkt. 5c; oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 40c

## SQUASH

## Summer Varieties

Squashes are extensively grown, and embrace many distinct varieties. Their easy cultivation, enormous yield, and nutritious qualities render the larger kinds one of the best and most profitable crops for stock feeding. The summer varieties are ready for the table early in the season, while the winter sorts can be kept until the early frosts are again in the market. All kinds thrive best in loose, rich soil, under the same treatment as that recommended for melons. The seed should not be planted until danger of frost is past and the ground is warm. Plant the summer varieties four feet apart each way, and the winter kinds, eight feet.

**EARLY WHITE BUSH SCALLOP**—The leading early Bush Scallop variety; round, flat, with scalloped edges. The skin is white; the flesh is of excellent quality, and ready for use as soon as it is large enough.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c

**MAMMOTH WHITE BUSH, SCALLOP**—An improvement on the preceding in point of size, being twelve to fifteen inches across; very productive, and uniform in growth.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c

**SUMMER CROOKNECK**—An early, prolific kind, having a solid, curved neck; the skin is yellow, thin, hard, and very warty; flesh tender and of good quality.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c

**MAMMOTH SUMMER CROOKNECK**—Twice the size of the ordinary Summer Crookneck, also earlier and more warty; a decided advance on the old kind.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c

**WHITE SUMMER CROOKNECK**—A comparatively new but decidedly excellent summer variety. Similar to the Crooknecks, but ivory white in color; of good quality and flavor, and sure to become a favorite.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 25c; lb., 75c

## Late or Winter Varieties

**BOSTON or VEGETABLE MARROW**—A leading variety, ripening early in the fall, but keeping well through the winter; oval round, mottled

dark and light yellow; flesh salmon colored, remarkable for its rich, sweet flavor.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c; lb., 85c

**MAMMOTH CHILI**—The largest variety grown, having attained a weight of over two hundred pounds. Round, flattened at the ends; rind deep orange; flesh dark yellow, thick, and very nutritious. Sometimes used for the table, but more desirable for stock feeding. It is a good keeper.

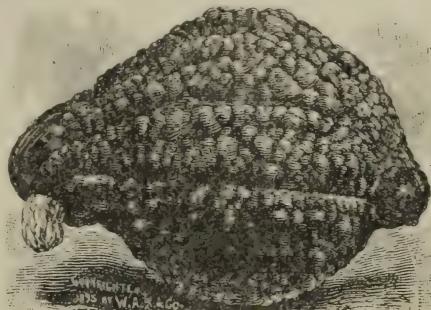
Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c; lb., \$1.00

**FIELD MARROW**—A mixture of marrow varieties to be planted for feeding dairy cows and other stock. Yields a large crop.

Pkt., 5c; oz., 10c; 2 oz., 10c; 1/4 lb., 15c; lb., 30c; 25 to 100 lbs., write for price.

**HUBBARD**—One of the best and most popular kinds; rind bluish green, and very hard; flesh remarkably dry, either baked or boiled, and not surpassed in richness and sweetness by any. It is also easily kept all winter.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 35c; lb., \$1.15



**GOLDEN HUBBARD**—Flesh deep orange, skin orange to red in color; of excellent grain and flavor. Very vigorous and very productive, maturing its crop early; fruits six to eight pounds each, which are good keepers. Considered the best winter variety, and likely to become a favorite.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c; lb., \$1.00

## SUGAR CANE OR SORGHUM

The climate of the Pacific Coast south of the Columbia River, and the soil of most of the valleys and river bottoms, are so similar to those of the Southern States, Hawaiian, and West India islands, where the sorghum canes form so large and profitable a staple, it is surprising that more attention is not paid to their cultivation, and especially when it is known that they afford one of the most prolific and profitable crops for cattle feeding known to the husbandman. We offer the two best varieties, and believe it will be to the advantage of farmers to give them a trial, for the production of both sugar and syrup, and for stock feeding. Cultivation the same as for corn.

**EARLY AMBER**—Early and of rapid growth, best for sugar and syrup, making a rich, amber-colored syrup, and granulating into sugar beautifully.

Pkt., 5c; 1/4 lb., 15c; lb., 30c.

**EARLY ORANGE**—Of more vigorous growth and but little later than the Amber. It is good for sugar and syrup, and, on account of its unusually large yield, is the most profitable kind for stock feeding.

Pkt., 5c; 1/4 lb., 15c; lb., 30c.

## TOBACCO

**CONNECTICUT SEED LEAF**—Hardy, and the best adapted to cool localities and for general use.

Pkt., 5c; oz., 25c; 2 oz., 35c; 1/4 lb., 60c; lb., \$2.00

**HAVANA**—Of fine texture and delicate flavor. Celebrated for its value in the manufacture of fine cigars.

Pkt., 5c; oz., 40c; 2 oz., 70c; 1/4 lb., \$1.25; lb., \$4.00

## TOMATO

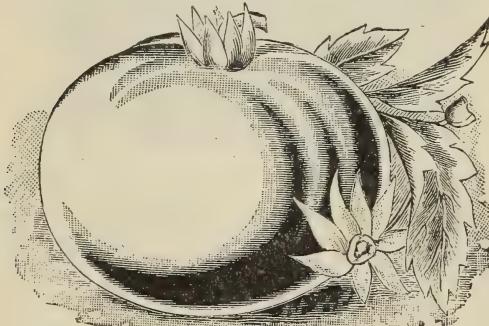
Marked improvement has recently been made in the tomato. Its value as a table vegetable can hardly be overestimated. Its healthfulness during the heat of summer, and especially for bilious temperaments, is well known, and a diet composed largely of tomatoes, both raw and cooked, is a powerful aid in warding off the effects of malaria. The first step toward success, after obtaining good seed, is to produce strong, healthy plants. For early crop, sow as soon as desired in hotbeds. When two inches high, transplant in the beds to four or five inches apart each way, to give the plants room, and make them bushy, always keeping them well aired. If they crowd each other before time to transplant, root prune by drawing a sharp knife deeply between the plants. When danger of frost is past, transplant to rich, loose soil, keeping well watered and cultivated. For later crop, sow in cold frames or open ground, and transplant when four to six inches high. If possible, support the vines. Thus treated, they will continue in bearing much longer, and the fruit will be greatly improved.

**SPARK'S EARLIANA**—The earliest tall variety, forming ripe fruit much earlier than any other variety. The fruit is large, smooth, of a bright scarlet color, and of fine quality. Very valuable for early market use.

Pkt., 10c; oz., 40c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50.

**ATLANTIC PRIZE, EXTRA EARLY**—A distinctly early variety, of good size and smooth surface. Many of the objections to the usual early kinds, such as under size, deep corrugations, and rough skin, are overcome in the Atlantic Prize.

Pkt., 5c; oz., 25c; 2 oz., 45c;  $\frac{1}{4}$  lb., 80c; lb., \$2.75



**EARLY MICHIGAN**—An extremely smooth, perfectly-shaped tomato; solid, and without core. Vines large and vigorous. A heavy cropper, and one of the earliest.

Pkt., 5c; oz., 25c; 2 oz., 45c;  $\frac{1}{4}$  lb., 80c; lb., \$2.75

**ACME**—Also early and popular. The fruit is smooth, handsome, solid, and of good quality. A good bearer. Color dark purplish red. A su-

perior early market variety, and ripens evenly.

**PERFECTION**—One of the best medium early kinds; round, uniformly smooth; vines very productive; fruit deep scarlet, firm, and of excellent quality. Vines continue long in bearing.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**FAVORITE**—One of the best for general crop vines vigorous, continuing in bearing all the season; fruit very large, uniformly smooth, firm, without hard core; ripens medium early; holds its size well till frost. Is very fleshy, with few seeds.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**TROPHY (Selected Stock)**—We offer selected stock of this well-known, popular variety. It ripens just after the Perfection; vines vigorous, continuing in bearing till frost; fruit large, bright scarlet, firm, and of the best quality, either fresh for table use or for canning.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**STONE**—A large tomato of good quality; round or apple shaped, and very uniform, deep red in color, and exceedingly heavy.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**DWARF ARISTOCRAT**—Plant dwarf and compact; fruit medium size; rich, glossy red; smooth and solid. Fine for private gardens.

Pkt., 5c; oz., 35c; 2 oz., 60c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50

**BEAUTY**—A distinct variety, uniformly large; color deep crimson, inclining to purple. The vines, which are vigorous, continue to bear large, handsome fruit till the close of the season. It has but few seeds, and its handsomely-grained flesh is of superior quality. It has few equals, either for the family or market garden.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**DWARF CHAMPION or TREE TOMATO**—Vines erect and vigorous; fruit of medium size, round, smooth, of excellent quality, very fleshy; approaching purple in color.

Pkt., 5c; oz., 35c; 2 oz., 60c;  $\frac{1}{4}$  lb., \$1.00; lb., \$3.50

**OPTIMUS**—A second early kind; uniform in size; color bright red; smooth and handsome. Our stock is the very best.

Pkt., 5c; oz., 20c; 2 oz., 35c;  $\frac{1}{4}$  lb., 60c; lb., \$2.00

**GOLDEN QUEEN**—Very handsome when prepared for the table; flesh rich and of superior quality.

Pkt., 5c; oz., 30c; 2 oz., 50c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00

**RED PEAR SHAPED, YELLOW PLUM, RED CHERRY**—Small, handsome tomatoes, resembling the different fruits named; used for pickles, preserves, and ornamentation. Seed sold separate or mixed.

Pkt., 5c; oz., 30c; 2 oz., 50c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00

**HUSK TOMATO or GROUND CHERRY**—A small, yellow sort, much used for preserving; also good eaten fresh from the vines.

Pkt., 5c; oz., 30c; 2 oz., 50c;  $\frac{1}{4}$  lb., 85c; lb., \$3.00

## TURNIP

The turnip is a nutritious, wholesome vegetable, of fine texture and delicate flavor and easily affected by soil and cultivation. White-fleshed varieties are apt to deteriorate in quality if overgrown or left in the ground too long after maturing. The best results are obtained in rich, mellow soil, adding, if possible, a dressing of wood ashes. Rotted manure should be avoided, having a tendency to make turnips rough, wormy, and strong. They are hardy, and may, in mild climates, be sown as soon after rain as the ground can be prepared, either broadcast or in drills twelve or eighteen inches apart and half an inch deep, thinning to six inches apart in the drill. The ruta baga, which is extensively grown for feeding stock during winter, is sown later, in rows two or three feet apart, and thinned to ten inches in the row. Both ruta bagas and turnips

may be kept through the winter by storing in a cool, dry place, and covering with straw, or by burying in clean, dry sand. Our list includes the choicest varieties.

## White-Fleshed Kinds

**EXTRA EARLY WHITE MILAN**—This variety is ready for the table sooner after planting than any other yet introduced. Top small, erect, strap leaves; bulb a deep purple above, white underneath; flesh white, firm, and delicate. Remains tender and in condition for the table a long time.

Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 25c; lb., 80c

**EXTRA EARLY PURPLE-TOP MILAN**—Same as above, but pure white.

Pkt., 5c; oz., 10c; 2 oz., 15c;  $\frac{1}{4}$  lb., 25c; lb., 80c

## TURMIP—Continued

## White-Fleshed Kinds



**EARLY WHITE FLAT DUTCH, STRAP LEAVED**—A leading white-fleshed variety, and one of the best, either for the family, market garden, or field crop. It is of medium size, and produces a large crop. The flesh is firm, but tender, and of a superior, rich, buttery flavor. A good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**EARLY PURPLE TOP STRAP LEAVED**—One of the best and most universally grown. Small, erect top, round flat; purplish red above, white underneath; flesh firm, but very tender and sweet. Of quick growth, it is soon ready for the table, and keeps well.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**PURPLE TOP WHITE GLOBE**—A large globe-shaped variety; purple above ground; it is handsome and of excellent quality, and recommended both for the family garden and field crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**WHITE EGG**—An oval or egg-shaped variety, growing much aboveground. It is pure white, smooth, and handsome; flesh tender and excellent. It is of rapid growth, and recommended for early all planting.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c.

## RUTA BAGAS OR SWEDES

Ruta bagas are larger and coarser in flesh than turnips, but yield more weight per acre, and are richer and more nutritious, and for these seasons preferred for stock feeding, for which they are very profitable. They are also used on the table. They yield best in a rich, strong soil.

**PURPLE-TOP SWEDDE OR YELLOW RUTA BAGA**—A large variety, growing much aboveground; is hardy, and should be sown as early as the ground can be prepared; ashy purple on top, yellow underneath. A large cropper and a good keeper.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**MONARCH or TANKARD**—This is a tankard-shaped sort; color purplish crimson above ground, yellow below. The flesh is of a rich yellow, fine grained, and of the best quality. The roots grow

## AROMATIC, MEDICINAL, SWEET AND POT HERBS

**ANISE** (*Pimpinella Anisum*)—For garnishing and seasoning. The seeds are also used medicinally. They have a powerful aroma, are tonic, and frequently beneficial in cases of colic and dyspepsia. Annual.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c

**BALM** (*Melissa officinalis*)—A fragrant, lemon-scented herb, used for making balm tea or balm wine. It is easily grown from the seed, or multiplied by dividing the roots. The tea is a febrifuge, possessing considerable virtue, and the wine excellent to allay thirst. Hardy perennial.

Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 75c

**BASIL, SWEET** (*Ocimum Basilicum*)—The leaves and top shoots are used for seasoning soups, stews, and sauces. Hardy annual.

Pkt., 5c; oz., 15c; 2 oz., 25c; 1/4 lb., 40c

**POMERANEAN WHITE GLOBE**—A pure white, smooth-skinned turnip, growing in good soil to a very large size; almost perfect globe shaped; good for stock or table.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 15c; lb., 45c

**SWEET GERMAN**—A round turnip, white, solid, and sweet, but peculiar in the fact that it partakes of the nature and suggests the flavor of the ruta baga. Should be sown three or four weeks earlier than the flat varieties. A good keeper and a favorite in the Eastern States.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**COW HORN or LONG WHITE**—A distinct variety, having a long, slightly-curved root, somewhat resembling a carrot. It is white, with a green tint near the top, growing partly above-ground; flesh tender, sweet, and of fine quality. Can be sown early for fall and winter use.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 65c

## Yellow-Fleshed Varieties

**LARGE AMBER GLOBE**—Large, rather globe shaped; yellow, tinted with green on top; flesh sweet and of good quality. It is hardy, produces a large crop, and keeps well. Good both for the table and field crop.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**ORANGE JELLY or ROBERTSON'S GOLDEN SWELL**—One of the best yellow-fleshed kinds; not large; rather globe shaped; flesh fine grained, firm, sweet, and of superior flavor. Keeps well all winter.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**PURPLE-TOP YELLOW ABERDEEN**—Round, medium size, light yellow, stained with purple on top. Produces a large crop, is hardy, and keeps well; flesh very firm, but tender and sweet.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**SWEET RUSSIAN or WHITE RUTA BAGA**—The only white-fleshed ruta baga in general cultivation; is hardy, easily grown, large, and yields as heavy a crop as the best yellow kinds; flesh fine grained and solid, but tender and well flavored; good for stock and desirable for the table.

Pkt., 5c; oz., 10c; 2 oz., 15c; 1/4 lb., 20c; lb., 50c

**CATNIP** (*Nepeta Cataira*)—A mild nervine. As a tea it is excellent for children. For winter use, remove the plant by the root, and dry as other herbs. Hardy perennial.

Pkt., 5c; oz., 35c; 2 oz., 60c; 1/4 lb., \$1.00

**DILL** (*Anethum Graveolens*)—A hardy annual, the seeds of which are aromatic, warm, and pungent, and are used medicinally in cases of colic and to correct flatulence. They are also used to flavor soups and stews, and in pickles. The leaves possess similar qualities, and can be used in the same manner as the seeds.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 35c.

**FENNEL, SWEET** (*Foeniculum vulgare*)—The leaves are used for ornament, also much esteemed for flavoring fish sauces. The seeds have an agreeable aroma, and are used in confectionery, for flavoring, and medicinally. Hardy annual.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 30c

## AROMATIC, MEDICINAL, SWEET AND POT HERBS—Continued

**HYSSOP** (*Hyssopus officinalis*)—The leaves and flowers are the parts used, and have a warm, aromatic, pungent taste. Medicinally it is a tonic and expectorant, acting on the bronchial tubes, and is beneficial in cases of asthma and catarrh. A hardy perennial, maturing best in a dry, sandy soil. The hyssop of Scripture is supposed to be a species of the caper.

Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c

**LAVENDER** (*Lavendula vera*)—So called from its extensive use by the Romans in the bath. It is cultivated for the powerful and delicious fragrance of its flowers, which should be gathered when in full bloom, dried quickly, and carefully protected from the air and moisture. Hardy perennial.

Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c

**MAJORAM, SWEET** (*Origanum Majorana*)—A perennial in warm climates, but unable to withstand severe winters. The young shoots and leaves are peculiarly aromatic, and are used for flavoring, either fresh from the garden or dried.

Pkt., 5c; oz., 20c; 2 oz., 30c; 1/4 lb., 50c

**RUE** (*Ruta graveolens*)—A stimulant in medicine, but, on account of its powerful acrid effect, should be used with great care. The plant should not be allowed to run to seed, or the young shoots should be cut before the seed matures, or they lose their strength. Hardy perennial.

Pkt., 5c; oz., 35c; 2 oz., 60c; 1/4 lb., \$1.00

**SAGE** (*Salvia officinalis*)—Sage is used, almost

universally, as a condiment for relishes and flavoring. Used medicinally, it is diuretic in effect, producing gentle perspiration. It is a hardy perennial, that should have rich soil and thorough cultivation. Cut the young shoots just before blooming, dry quickly in the shade, and store carefully, or pulverize and bottle.

Pkt., 5c; oz., 20c; 2 oz., 35c; 1/4 lb., 60c

**SAVORY, SUMMER** (*Satureia Hortensis*)—Cultivated for the young shoots, which are dried and used for flavoring soups, dressings, and meats. It is a hardy annual, and may be sown as soon as the ground can be prepared.

Pkt., 5c; oz., 15c; 2 oz., 20c; 1/4 lb., 35c

**SORREL** (*Rumex acetosa*)—A hardy perennial plant, much prized by the French. It has a sour taste, and is used as a salad, and by some in soups and sauces. Can be propagated by dividing the roots. To secure a good growth of leaves, cut out the flower stalks as they appear.

Pkt., 5c; oz., 25c; 2 oz., 35c; 1/4 lb., 60c

**THYME** (*Thymus vulgaris*)—A hardy perennial, a warm, pungent, and very aromatic plant, much used for flavoring soups, dressings, etc. It is also a nervine, and tea made from the leaves is used with good effect in cases of nervous headache. It can be used either fresh or dried. Plant as soon as the ground can be prepared.

Pkt., 5c; oz., 25c; 2 oz., 40c; 1/4 lb., 65c

## CLOVER AND GRASS SEEDS

Clover and grass seeds at pound prices include postage or express charges prepaid at our expense; 10, 25 and 100 pound lots by express or freight at buyer's expense for charges.

As the country becomes settled, and lands that have been used for grazing only are inclosed and devoted to agriculture or the growing of fruits, the question of economically raising and fattening stock for market becomes a most important one. To solve the problem, the farmers are fast turning their attention to the raising of grass and clover. Fully appreciating the growing importance of this branch of husbandry, we are constantly adding to our facilities to meet every requirement of our largely-increasing trade.

**ALFALFA** (*Medicago sativa*)—Alfalfa, also known as Lucerne and Chili clover, is one of the most valuable forage plants, yielding a prodigious amount of feed, which is relished by all kinds of stock, and is very nutritious. It should be cut just before coming into bloom. The hay is especially valuable for dairy cows. As soon as cut, it immediately commences to grow, and during the hottest and driest weather, when other grasses are parched and withered, it remains fresh and green, and grows as rapidly as ever. Prepare the land by deep plowing and thorough harrowing. Sow from twenty to thirty pounds of seed to the acre, and harrow or brush it in well. Seeding thick will produce fine stalks—a desirable feature, either in hay or pasture. The seed should be sown in spring, after danger from freezing the young plants is over, or in the fall, early enough to give it a good stand before frost.

Per lb., 30c; 100 lbs. and over, write for price.

**RED CLOVER** (*Trifolium pratense*)—The standard clover for all purposes, either pasture, hay, or for improving and enriching the soil. It is hardy, and may be sown at any time when the ground is in condition to receive the seed. It succeeds well on any good soil, and thin, light lands are made fertile and rich by allowing them to remain seeded to it for a number of years. It yields the heaviest crop of any clover except alfalfa, and makes superior hay, especially if mixed with timothy, either for dairy cows or general use. Sow from twelve to fifteen pounds per acre, being careful to get it evenly distributed over the ground.

Per lb., 30c; 10 to 25 lbs., at buyer's expense for freight, 16c per lb.; 100 lbs. and over, write for price.

**MAMMOTH RED CLOVER** (*Trifolium pratense*)—Similar to Red Clover, but coarser and taller, and considered of more value for reclaim-

ing and enriching waste lands, as it sustains itself, and succeeds sometimes when Red Clover fails. Sow from twelve to fifteen pounds per acre, in time to get the benefit of ample moisture. Per lb., 35c; 10 to 25 lbs., at buyer's expense for freight, 20c lb.; 100 lbs. and over, write for price.

**WHITE DUTCH CLOVER** (*Trifolium repens*)—A small variety, having a white blossom. It is of a vining nature, spreading rapidly, and will soon cover bare spots if the stand be uneven. It does not attain sufficient height to be profitable for hay, but is superior for pasture either for cattle or sheep, and unsurpassed for the production of honey. It also makes a beautiful lawn, mixed with blue grass. When sown alone, use eight to ten pounds per acre. Harrow the soil until it is very fine before sowing.

Per lb., 45c; 10 to 25 lbs., at buyer's expense for freight, 30c lb.; 100 lbs. and over, write for price.

**ALSIKE or SWEDISH CLOVER** (*Trifolium hybridum*)—A comparatively new and perfectly hardy variety, which is rapidly growing in popular favor. It yields large crops of excellent hay, and, under favorable conditions, may be cut several times during the season. It is also valuable for bees. It is well calculated to resist both drought and excessive moisture. It is perennial, and produces a mass of long, fibrous roots, which hold the soil, making it useful for permanent pasture on hillsides which are liable to wash. When used alone, sow from six to eight pounds per acre.

Per lb., 30c; 10 to 25 lbs., at buyer's expense for freight, 18c lb.; 100 lbs. and over, write for price.

**TIMOTHY** (*Phleum pratense*)—Timothy is indigenous in North America, and takes its name from Timothy Hanson, who first introduced it into England. It is nutritious, and relished by all herbivorous animals, either as pasture or hay. In moist soils it affords excellent pasture in the fall after the hay has been harvested. It should be cut just before or immediately on coming into bloom, as it loses much of its strength and flavor, and becomes hard and strawy, if allowed to ripen. It is perennial, sods readily on any good soil, and does not fail even on clayey lands when well prepared. It yields a moderately heavy crop of hay, that should be well cured, to prevent molding, and salted as it is mowed or stacked. To secure a

## CLOVER AND GRASS SEEDS—Continued

od stand, fifteen to twenty pounds should be own to the acre.  
er lb., 25c; 10 to 25 lbs., at buyer's expense for freight, 18c lb.; 100 lbs. and over, write for price.

**ORCHARD GRASS** (*Dactylis glomerata*)—Also known as Cock's Foot. A tall grass, having large, lossy blades. It is justly becoming more popular, as it is one of the best forage grasses known, on account of its rapid growth, being ready for razing ten to fifteen days earlier than most other kinds, and, where the ground is kept moist, continues to grow vigorously as fast as eaten off, till late in fall, and in warm localities all winter. It yields a heavy crop of hay, and succeeds well in open timber lands. If intended for hay only, it is usually mixed with clover, as they both bloom at the same time, and can be cut when at their best. It is perennial, and has a tendency to grow in tufts, and should be sown thick. It succeeds on any good soil, and requires thirty to forty pounds per acre to secure the best results.

er lb., 30c; 10 to 25 lbs., at buyer's expense for freight, 18c lb.; 100 lbs. and over, write for price.

**RED TOP** (*Agrostis vulgaris*)—Also known in some sections as Herd's Grass, and by some as English Grass and Rhode Island Bent Grass. It is perennial, and the best yield is obtained on wet and even marshy land. The blades and stalks are fine, and generally preferred for grazing; but where a good stand is secured, it affords a profitable hay crop. The seed is fine and light, and are should be taken to get it sown evenly. The proper quantity is thirty pounds per acre for seed in chaff, and half that for fancy.

**Red Top, in chaff, lb., 25c; Red Top, fancy, clean, free from chaff, lb., 35c.**

**HARD FESCUE** (*Festuca Duriuscula*)—A fine, rather dwarf-growing variety, justly noted for its drought-resisting qualities. It is prized for lawns, and is especially valuable as a pasture for sheep, as it succeeds well sown on uncultivated land where the soil is loose. Sow thirty pounds per acre.

**Lb., 40c**

**KENTUCKY BLUE GRASS** (*Poa pratensis*)—One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year. It is perennial, and in warm localities, where the ground is kept moist, and it is pastured or frequently cut, to prevent the seed from ripening, will continue to grow luxuriantly the entire year. It is also incomparably the best grass known for lawns and parks, and, where covered with fine manure every fall, watered well and evenly, and cut frequently, will furnish a handsome, velvety lawn for years, requiring no resowing. For pasture, sow forty to fifty pounds to the acre, but to secure a fine lawn, much heavier seeding is required, and not less than eighty pounds should be sown.

**Fancy clean, 35c per lb.; 10 to 25 lbs., at buyer's expense for freight, 25c lb.; 100 lbs. and over, write for price.**

**ENGLISH PERENNIAL RYE GRASS** (*Lolium perenne*)—A strong-growing, hardy, perennial grass, noted for its nutritive qualities. It is equally valuable both for grazing and hay, and will succeed on any good, tillable land, if well prepared. It is easily cured, and kept either in the mow or stack. Also makes a fine lawn, and for large grounds and parks is very successful. Does not require the close care that Blue Grass does, and will flourish better under trees or in shady locations. For field crop, sow forty to fifty pounds to the acre, and if used for lawns, not less than seventy-five pounds.

**Lb., 25c; 10 to 25 lbs., at buyer's expense for freight, 12½c lb.**  
Extra heavy for lawns and parks, lb., 30c; 10 to 25 lbs., at buyer's expense for freight, 15c lb.; 100 lbs. and over, write for price.

**ITALIAN RYE GRASS** (*Lolium Italicum*)—A perennial variety, extensively grown in many parts of Europe. One of its chief points of merit is its rapidity of growth. Where the seasons are short, either from limited rains or long

severe winters, this variety is found valuable. Though a distinct variety, its qualities are similar to the English Perennial, and will succeed on the same soils. From forty to fifty pounds per acre should be sown.

**Per lb., 30c; 10 to 25 lbs., at buyer's expense for freight, 15c lb.**

**TALL OAT GRASS** (*Avena elatior*)—Valuable in mixtures for permanent pastures in dry, gravelly soil. It is perennial, and will readily form a permanent sod with little moisture. Sow thirty or forty pounds per acre when used alone.

**Per lb., 35c**

**FINE-LEAVED FESCUE** (*Festuca tenuifolia*)—One of the best of all grasses for sheep, and should be used in all mixtures for permanent pasture. It is still finer than the Hard Fescue, and, like it, succeeds on virgin soil. Sow thirty pounds per acre, if possible, just before rain.

**Per lb., 45c**

**BROME GRASS** (*Bromus inermis*)—A variety coming from Hungary and the northern provinces of Turkey. It is nutritious, and yields a heavy crop, and in these respects is said to be not inferior to alfalfa. It comes highly recommended as a variety that will mature a good crop with an astonishingly small amount of moisture, succeeding where most other kinds fail. We deem it worthy a thorough trial by farmers and stock raisers, on virgin soil and in dry sections. Thirty pounds per acre should be sown.

**Per lb., 35c; 10 to 25 lbs., at buyer's expense for freight, 15c lb.; 100 lbs. and over, write for price.**

**BERMUDA GRASS** (*Cynodon dactylon*)—Suitable only for climates where the winters are not below the freezing point. Particularly adapted to the Southern States, as it stands the hottest and driest season, and is very valuable for stock, being exceedingly nutritious, and for summer pasture is very valuable. Sow eight to ten pounds per acre on well-prepared land; rolling in is all that is necessary to make a sufficient covering. It is slow to germinate, requiring at least thirty days under favorable circumstances.

**Per lb., 75c; 5 lbs., by mail or express, prepaid, \$3.50**

**MIXTURE FOR DRY LANDS**—Our mixture for permanent pasture is composed of a variety of grasses, selected especially for their ability to survive drought, poor soil, close feeding, and for their nutritive and lasting qualities. We recommend it as the best mixture to be had for the use for which it is designed. Fifty pounds to the acre.

**Per lb., 35c; 100 lbs. and over, write for price.**

**LAWN GRASS**—Nothing adds a greater air of refinement to a home than a handsome, well-kept lawn. It not only increases its value financially, but renders it doubly valuable in the higher sense of enjoyment, and is within the reach of all who have the ground to devote to it. The cost need not deter any, if leisure hours are devoted to its care. The directions we give to secure a good lawn, when using Extra and Fancy Clean Kentucky Blue Grass, will be equally successful when mixtures are sown. Cut with a lawn-mower frequently, and water thoroughly and evenly immediately after mowing. This will make it fine and velvety. This mixture includes fine perennial varieties in proper proportions to secure a close and permanent sod. Fifty to sixty pounds of seed should be sown to the acre, or one and a half pounds to a plat of ground twenty feet square.

**Fine Mixed, lb., 30c; 10 to 25 lbs., at buyer's expense for freight, 18c lb.**

**Extra Fine Mixed, lb., 40c; 10 to 25 lbs., at buyer's expense for freight, 25c lb.; 100 lbs. and over, write for price.**

**MEADOW FESCUE OR ENGLISH BLUE GRASS** (*Festuca Pratensis*)—A perennial variety, growing from three to four feet high. It roots deep, and on this account resists drought better than most grasses. It is extensively grown in England and on the continent. It succeeds in any ordinary soil, and well repays the labor of deep plowing and thorough harrowing in preparing the land. It yields a heavy crop of superior hay, and is one

## CLOVER AND GRASS SEEDS—Continued

of the best kinds for pasture, as it comes early and remains green until late. It is valuable to mix with other kinds, as it sometimes succeeds where others fail. Use thirty pounds per acre when sown alone.

**Lb., 30c; 10 to 25 lbs., at buyer's expenses for freight, 18c lb.**

**MILLET, COMMON** (*Panicum miliaceum*)—A variety growing from three to four feet high, having rather broad blades and strong stalks. It supplies a valuable hay crop, and affords excellent pasture. The seed is also extensively sold in the market and used with mixed bird-seed. It should have rich, mellow soil, well prepared. For a seed crop, sow fifteen pounds per acre; for hay and pasture, use thirty pounds. Annual.

**Per lb., 25c; 10 to 25 lbs., 7c per lb.; by freight or express, charges collect; 100 lbs., write for price.**

**MILLET, GERMAN or GOLDEN** (*Panicum Germanicum* var)—An improved variety, yielding a larger crop of seed than the Common Millet. It is also taller than the common, and yields a heavier crop of hay. The grains of seeds are larger and of a deeper orange yellow. For a crop of seed, sow twelve to fifteen pounds per acre; for hay, twenty-five to thirty pounds. Annual.

**Per lb., 25c; 10 to 25 lbs., 8c per lb.; by freight or express, charges collect; 100 lbs., write for price.**

## Seed Potatoes

We carry a good line of very early and medium early kinds, such as **Early Ohio**, **Early Wonder**, **Select Early Rose**, **Early Michigan**, **Daybreak**, **Early Bover**, **Uncle Sam**, as well as the ever popular **Burbanks**. Write for prices.

## Seed Wheat, Seed Rye, Seed Oats

We carry all the leading as well as new varieties for spring and fall sowing. Write for further information and prices.

## Buckwheat

**SILVER HULL**—A very good and popular variety. Grain is of a light gray color, rounder than the common; has a thin husk; matures earlier and yields heavy. A good milling variety.

**Per lb., postpaid, 15c; 100 lbs., \$3.50**

**JAPANESE**—This variety excels all others; yield much heavier; ripens one week to ten days earlier; stands up better and makes better flour. Excellent for bee pasture.

**Per lb., postpaid, 15c; 100 lbs., \$4.00**

## Cow Pea

These so-called "Cow Peas" are really a small bean of strong running growth, with a large and abundant glossy, dark-green foliage. Most desirable for enriching the soil and for furnishing a large crop of nutritious forage. These so-called "Cow Peas" gather quantities of nitrogen from the air, a portion of which is conveyed to the soil by the roots, but a much larger amount can be stored in the soil for fertilizing by allowing the vines to die down and plowing them under. They yield as high as five to nine tons of green feed per acre. The vines may be cut either for feeding green or can be cured like clover for winter use. Sow two bushels per acre.

**WHIP-POOR WILL**—The earliest maturing variety of upright or bush growth. The seeds may be gathered and the plants harvested more readily than with the running type of growth.

**Per lb., postpaid, 20c; by freight or express, 10 lbs., 90c; 100 lbs., \$7.50**

## Field Peas

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

**WHITE CANADIAN**—A leading kind; seed almost white; a heavy cropper.

**Per lb., postpaid, 15c; 100 lbs., \$3.50**

**BLUE PRUSSIAN**—Very much like the above, except in color. This variety is largely sold for soup peas.

**Per lb., postpaid, 15c; 100 lbs., \$3.75**

## Bird Seed

## Not for Planting.

S. S. Co.'s Best Mixed.....	Per lb., postpaid, 20c
Canary—Best Recleaned.....	Per lb., postpaid, 20c
Hemp.....	Per lb., postpaid, 20c
Millet.....	Per lb., postpaid, 20c
Rape.....	Per lb., postpaid, 20c
Cuttle Bone. Large Bone.....	Postpaid, 2 for 5c

## Barley

**BEARDLESS**—The earliest barley known. The straw is about the height of the common barley, but better, and will stand up on any land; with good season and land has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards which are so disagreeable in threshing, although it is a profitable crop. This is beardless, and as easy to grow and handle as oats. It is becoming more popular each season.

**Per lb., postpaid, 15c; 100 lbs., \$2.75**

**CHEVALIER BARLEY**—A great improvement on the Regular barley. This is much earlier, free from rust and an enormous yielder. Will outyield common barley two or three times. It stands up well and seems to be adapted to all kinds of soil. The heads are always filled with good, plump, heavy grains that have a very thin hull.

**Per lb., postpaid, 20c; 50 lbs., \$1.25; 100 lbs., \$2.50**

**COMMON BARLEY**—We always aim to have a nice, clean stock of good Seed Barley on hand at all times.

**Per lb., postpaid, 15c; 100 lbs., market price.**

## Flax Seed

Recleaned for planting.

**Per lb., postpaid, 20c; 100 lbs., \$5.00**

Flax for other purposes.

**Per lb., 20c; 100 lbs., \$4.00**

Grond Flax, for medicinal uses.

**Per lb., 25c**

## Idaho Pea or Coffee Berry

A forage plant, valuable for semi-arid lands. Yields excellent crops of feed for horses, cattle, sheep and poultry. The peas, when nicely browned and ground, make an excellent beverage.

**Per lb., postpaid, 25c; 100 lbs., \$6.00**

## Soja Bean

A very valuable fodder plant, either for feeding green or for the silo. It is a rich food and is unsurpassed for forming flesh. Sow 30 pounds per acre in the spring after the ground becomes warm. Like clover, it improves the soil by drawing nitrogen from the air. Very productive.

**Per lb., postpaid, 25c; 100 lbs., \$9.00**

## CLOVER AND GRASS SEEDS—Continued

**HUNGARIAN MILLET**—A valuable species of dwarf millet, finer than the Common and German varieties, but producing a closer stand and yielding as much per acre. Requires less moisture than most other grasses to mature a profitable crop, and the hay is a favorite with stock. Now twenty-five to thirty pounds per acre. Annual.

Per lb., 25c; 10 to 25 lbs., 7c per lb.; express or freight, charges collect; 100 lbs., write for price.

**WILD RICE** (*Zizania Aquatica*)—For planting in duck ponds. A valuable forage plant; also furnishes food for wild fowl, ducks, geese, etc. Seed can be sown on the borders of lakes, ponds and small streams and grows very rapidly in one to our feet of water, attracting all of these wild birds from September on. It also purifies the water and affords a refuge for the small fry from the large fish.

Per lb., postpaid, 35c

Prices on Field Seeds are subject to market changes, but we will always send you full value, whether it be more or less, unless otherwise ordered. Special prices in quantity on request.

## Vetches

**SPRING VETCHES** (*Vicia sativa*)—A species of pea grown for stock. Sow broadcast sixty-five to one hundred pounds to the acre, and treat same as field peas.

Per lb., 25c; 10 to 25 lbs., 6c per lb.; 100 lbs., \$5.00; by freight or express, charges collect.

**SAND, WINTER or HAIRY VETCHES** (*Vicia villosa*)—This variety flourishes well on poor soils. The vines are tall, and furnish a great amount of feed. If cut when full grown, it will start up again, and give a good yield of forage or seed the same season. One hundred pounds to the acre broadcast.

Per lb., 30c; 10 to 25 lbs., at buyer's expense for freight, 15c lb.; 100 lbs., write for price.

## STRAWBERRY PLANTS

## POPULAR AND BEST WESTERN SORTS

**WILSON**—A heavy bearer of fine, moderate-sized berries; leading sort for canning.

**MAGOON**—Large, firm and excellent; sub-acid flavor; bears heavily; later than the Wilson.

**CLARK'S SEEDLING**—The best shipper; berries large, firm, delicious; vines bear large crops; especially adapted to dry soil.

**MARSHALL**—Recommended by Corvallis Experiment Station as being the best all-round strawberry; very large; dark crimson throughout; fine flavor; a fine market and table berry. One local grower says in size, appearance, flavor and sweetness it is superior to the Magoon.

## PRICE LIST OF PLANTS.

By mail, postpaid.

Kinds—	Dozen	100	1000	Not less than 500 plants of a kind at the 1000 rates; 50c per M less in sacks.
Lark's Seedling	\$.25	\$1.00	\$4.50	
Lagoon	.25	1.00	4.50	
Vilson	.25	1.00	4.50	
Marshall	.35	1.25	6.00	
New Oregon, each 10c	.50	3.00	15.00	amount and kind wanted.

## VEGETABLE PLANTS

Postpaid By Express

**CABBAGE**—Dozen 100 1000  
Early or late kinds..... \$0.20 \$0.75 \$6.00  
Add 25c per 100 for Cabbage Plants by mail.

Postpaid By Express

**CAULIFLOWER**—Dozen 100 1000  
Early Snowball..... \$0.30 \$1.25 \$8.00  
Late kinds..... .30 1.00 7.00  
Add 25c per 100 for Cauliflower Plants by mail.

Postpaid By Express  
**CELERY**—Dozen 100 1000  
Leading kinds..... \$0.25 \$0.75 \$6.00  
Add 25c per 100 for Celery Plants by mail.

Postpaid By Express  
**TOMATOES**—Dozen 100 1000  
Leading kinds..... \$0.30 \$1.00 \$7.00  
Add 40c per 100 for Tomato Plants by mail.

## VEGETABLE ROOTS, ETC.

## ASPARAGUS.

One-year-old plants—Postpaid, doz., 25c; 50, 5c; 100, \$1.00. By express or freight, doz., 20c; 50c; 100, 75c.  
Two-year-old plants—Postpaid, doz., 40c; 50, 100; 100, \$1.50. By express or freight, doz., 25c; 50, 75c; 100, \$1.00.  
Write for prices if wanted by the thousand.

## HORSE RADISH ROOTS.

Postpaid, each, 5c; doz., 40c. By express or freight, doz., 25c; 100, \$1.50.

## HOP VINES.

Strong roots—Postpaid, each, 5c; doz., 40c. By express, doz., 25c; 100, \$1.50.  
We can make very low prices if wanted by the 1,000.

## RHUBARB ROOTS.

Varieties—Mammoth, Giant and Linnaeus.  
One-year-old roots—Postpaid, each, 8c; doz., 75c.  
By express or freight, doz., 50c; 100, \$3.00.  
Two-year-old roots—Postpaid, each, 15c; doz., \$1.50. By express or freight, doz., 85c; 100, \$6.00.  
If wanted in larger quantities, write for special prices.

## FRUIT TREES AND BUSHES

Each Per 100

**APPLES**—Each Per 100  
Two-year-old..... \$0.25 \$18.00  
One-year-old, 4 to 6 feet..... .20 15.00  
Select, 2 to 3 years old..... .35 .....

One-year-old, 3 to 4 feet..... .30 25.00  
Select, 2 years old..... .75 .....

**APRICOTS**—Each Per 100  
Two-year-old..... \$0.35 \$30.00  
One-year-old, 4 to 6 feet..... .30 25.00  
Select, 2 years old..... .40 .....

Each Per 100  
Two-year-old..... \$0.35 \$30.00  
One-year-old, 4 to 6 feet..... .30 25.00  
Select, 2 to 3-year-old stock..... .50 .....

**CRAB APPLES**—Each.  
Nice stocky trees..... \$0.35

**PEACHES**—Each. Per 100  
Two-year-old..... \$0.35 \$25.00  
One-year-old, 4 to 6 feet..... .30 20.00  
Select, 2 years old..... .40 .....

**CHERRIES**—Each. Per 100  
Two-year-old..... \$0.50 \$40.00  
One-year-old, 4 to 6 feet..... .35 \$30.00

**PLUMS**—Each. Per 100  
Two-year-old..... \$0.25 \$20.00  
One-year-old, 4 to 6 feet..... .20 15.00  
Select, 2 to 3 years old..... .30 .....

## FRUIT TREES AND BUSHES—Continued

## PRUNES—

	Each	Per 100
Two-year-old .....	\$0.25	\$20.00
One-year-old, 4 to 6 feet.....	.20	15.00
Select, 2 to 3 years old .....	.35	....

## QUINCE—

	Each
Two-year-old .....	\$0.40
One-year-old .....	.35
Select, 2 years old .....	.50

## Small Fruits

## CURRENTS—

	Each	Per 100
Two-year-old .....	\$0.15	\$10.00
One-year-old .....	.10	8.00
Extra large selected bushes.....	.25	....

## RASPBERRIES—

	Each	Per 100
Best Red Sorts .....	\$0.06	\$4.00
Low prices by the thousand.		

## BLACK CAP RASPBERRIES—

	Each	Per 100
Two-year-old .....	\$0.08	\$7.00
One-year old (January 1).....	.06	4.00
Low prices by the thousand.		

## GOOSEBERRIES—

	Each	Per 100
Two-year-old .....	\$0.10	\$8.00
One-year-old .....	.08	6.00
Large selected bushes .....	.15	....

## GRAPES—

	Each	Per 100
Two-year-old .....	\$0.20	\$12.50
One-year-old .....	.15	8.00
Extra large and strong roots.....	.25	....

Low price for thousand.

## Fruit Tree Seeds

The following do not produce the same varieties from seed, but the seedlings are used as stocks on which to graft or bud all our approved varieties.

**APPLE**—Seeds may be planted in fall, winter or spring. If not planted till spring, the seed should be kept moist during winter. Select deep rich, moist soil, and sow thickly in rows two feet apart. Keep free from weeds.

 $\frac{1}{4}$  lb., 20c; 1b., 50c

**PEAR**—Plant the same as apple seed, but for growing pear stocks, the ground should always be deep rich, and moist, and the young plants should be cultivated often, to insure a rapid growth the first season, as upon this depends their value for stocks. They are budded and grafted the same as apples.

Oz., 20c; 2 oz., 30c;  $\frac{1}{4}$  lb., 50c; 1b., \$1.50

# FLOWER SEED DEPARTMENT



## GENERAL DIRECTIONS FOR CULTURE

Flowers usually succeed best in a sandy loam, made rich with well-rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

The mistake is often made of working the soil when too wet, so that in drying it bakes and cracks. The soil should always be dry enough to work up mellow, and crumble when struck with a spade.

If fine seed is to be planted, make the surface even with a piece of board; sow the seeds, and then carefully sift a little dirt over them, after which water with a watering-pot having a fine rose. Shade from the hot sun until well up. Larger seeds should be planted deeper. A hotbed or cold frame is very convenient to start seeds in, as the temperature and moisture can be so regulated as to make their germination

and rapid growth more certain. Most seeds do well if sown in boxes in a sunny window in the house. Plants are usually ready to be transplanted when they have made a growth of two inches. It is a very common mistake to let them stand so close together as to crowd each other, and thus lose much of their beauty. Give each plant plenty of room, according to its habit of growth.

All plants, and especially annuals, exhaust themselves in maturing seed, consequently, to insure the health of the plant, and concentrate its full vigor in the continued production of an abundance of the finest blossoms, the flowers should all be taken from the stem when in full bloom, or at least as soon as the petals begin to wither or fall.

Many annuals, in warm climates, or when taken in or protected during winter, become perennial, with, however, but short lives.

# DESCRIPTIVE LIST OF CHOICE FLOWERS

Worthy of Special Attention, Embracing  
ANNUALS, BIENNIALS, PERENNIALS, CLIMBERS AND EVERLASTINGS

All Flower Seeds Sent Free by Mail on Receipt of the Price Placed Opposite Each Variety.

### ABRONIA

Exceedingly pretty trailing plant, producing fragrant, verbena-like flowers, that remain in bloom a long time. All the varieties are very effective in beds, rockwork, or baskets. The usk should be removed from the seed before planting. Grows freely in any light, rich soil. Half-hardy annual.

Mixed pkt., 10c.

### ABUTILON

(Flowering Maple)

One of the best perennial flowering plants for the greenhouse and conservatory and thrives outdoors in warm climates. The drooping, bell-shaped flowers are crimson, yellow, and white, or striped and variegated with different colors. If sown early, will bloom the first season.

Fine mixed hybrids, pkt., 25c.

### ACROCLINIUM.

(Everlasting Flower)

Elegant annual everlasting, producing beautiful laisy-like flowers, resembling the rhodanthe. Fine for winter bouquets. Gather when partially opened, and dry in the shade. Height ten to fifteen inches.

Album—Pure White . . . . .

Pkt., 5c

Mixed—All colors . . . . .

Pkt., 5c

### AGERATUM

Valuable and well-known plant. Fine for bouquets and useful for beds, borders, and pot plants. The flowers are graceful tufts of fine petals that remain fresh a long time after being cut. The plant blooms all summer, and, if protected or potted, and taken indoors, will continue to bloom all winter. Thrives well during our long, dry California summers. Half-hardy annual; six to eighteen inches high.

Mexicanum—Light blue . . . . .

Pkt., 5c

White—Dwarf . . . . .

Pkt., 5c

Fine Mixed—All colors . . . . .

Pkt., 5c

### AGROSTEMMA

Strikingly beautiful for beds, ribbons and borders. Its graceful, pink-like flowers remain fresh a long time after being cut, and are very handsome in bouquets. Thrives in any good soil.

Coronaria (Rose Campion)—Perennial) . . . . . Pkt., 5c

Coeli Rosa (Rose of Heaven)—Annual . . . . . Pkt., 5c

### AGROSTIS

(Ornamental Grass)

A hardy annual ornamental grass, delicate and graceful; very beautiful and effective when mixed with everlasting flowers in winter bouquets. Fifteen to eighteen inches high.

Nebulosa—One of the most graceful . . . . . Pkt., 5c

Pulchella—Very fine and delicate . . . . . Pkt., 5c



### ALYSSUM

The Alyssums are well-known, hardy plants of easy cultivation, effective in beds, and especially fine for borders and edgings. The White Sweet Alyssum possesses a delicate, agreeable frag-

rance, and is very popular for bouquets. They are all free bloomers, especially if the flowers are removed before they begin to fade. If taken in and protected, they will bloom all winter.

White Sweet—Very fragrant; useful in bouquets. Hardy annual . . . . . Pkt., 5c

Golden Alyssum (Saxatile)—The golden yellow flowers are desirable for rock-work and masses in beds. Hardy perennial . . . . . Pkt., 5c

### AMARANTHUS

Graceful, easily-grown, ornamental foliage plants, for the flower garden or conservatory. The colors are brighter if planted in not too rich soil, and are very handsome and effective contrasted with other ornamental foliage plants. Half-hardy annuals.

Caudatus (Love Lies Bleeding)—Drooping flowers . . . . . Pkt., 5c

Cruentus (Prince's Feather)—Erect flowers . . . . . Pkt., 5c

Tri-Color (Joseph's Coat)—Beautifully variegated, foliage scarlet, yellow and green . . . . . Pkt., 5c

### ARISTOLOCHIA-SIPHO

(Dutchman's Pipe)

A rapid-growing and most attractive climber, with curious, horn-shaped flowers, resembling a siphon. Very effective when trained against a house or piazza, or for covering an arbor. Hardy perennial . . . . . Pkt., 10c

### ASPERULA

A dwarf, hardy annual, bearing a profusion of delicate, lavender-colored flowers. Fragrant and desirable for bouquets. Fine for borders.

Pkt., 5c



QUEEN OF THE MARKET ASTER.

### ASTERS

A splendid class of plants, which for a late summer and fall blooming annual has no superior, producing a profusion of flowers of a great variety of rich colors and shades, of varied and beautiful form. The late flowers are usually the best, and, to sustain the plant, it should have rich soil and abundant moisture.

Truffaut's Peony Flowered Perfection—Full flower, perfect in form. Choice mixed . . . . . Pkt., 10c

## DESCRIPTIVE LIST OF CHOICE FLOWERS—Continued

## Asters

**New Rose**—Ten finest varieties, mixed. **Pkt., 10c**  
**Dwarf Bouquet**—Grows a mass of choice flowers. Fine for beds and borders. Splendid mixed ..... **Pkt., 10c**

**Victoria**—Very handsome, well-formed plant. Flowers of beautiful globular form. Twelve splendid varieties, mixed ..... **Pkt., 10c**

**Washington**—Extra double, large flowering, vigorous growth, delicate colors. Extra mixed ..... **Pkt., 15c**

**Dwarf Chrysanthemum**—Dwarf, compact habit. Large flowers. Very free blooming. Mixed ..... **Pkt., 10c**

**Japanese**—A very distinct and attractive class. The plants are vigorous, producing large, beautiful flowers, having long, tubular and twisted petals ..... **Pkt., 10c**

**German Quilled**—Large flowers of brilliant colors, freely produced. All colors mixed ..... **Pkt., 5c**

**Betteridge's Quilled**—Extra mixed ..... **Pkt., 10c**

**Snow White**—Desirable for bridal or funeral decoration ..... **Pkt., 10c**

**Fine Mixed**—Assorted varieties and colors. In great variety ..... **Pkt., 10c**

## BACHELOR'S BUTTON

(Centaurea Cyanus)

A hardy annual, easily cultivated. Has recently been greatly improved, and now produces handsome flowers of a great variety of rich colors. Borne on tall, branching stems, with but little foliage. Striking and handsome.

**Pink** ..... **Pkt., 5c**

**Blue** ..... **Pkt., 5c**

**White** ..... **Pkt., 5c**

**Choice Mixed** ..... **Pkt., 5c**

## BALLOON VINE

(Cardiospermum—Love in a Puff)

A climbing annual, having rather inferior flowers, which, however, are followed by curious puffs or balls that are quite handsome.

..... **Pkt., 5c**

## BALSAM

(Ladies' Slipper—Touch-Me-Not)

Exceedingly attractive and handsome plants, growing either in the conservatory or outdoors, and producing masses of various-colored flowers. No plant better repays the attention bestowed upon it. The soil should be very rich and free. The plants can be pinched back, so as to form bushes of any desired shape. Hardy annual, easily grown.

**Double White**—Extra choice ..... **Pkt., 10c**

**Camellia Flowered, Double**—Finest mixed **Pkt., 10c**

**Rose Flowered**—Double mixed ..... **Pkt., 10c**

**Double Dwarf**—Mixed ..... **Pkt., 5c**

**Double Tall**—Mixed ..... **Pkt., 5c**

## BARTONIA

Showy annual, bearing brilliant, metallic-yellow flowers that are large and gaudy. They require abundant moisture, and will not bear transplanting.

**Golden Bartonia**—Very fine ..... **Pkt., 5c**

## BRIZA or QUAKING GRASS

A handsome and useful ornamental grass. Bears graceful pods on slender stems, which quiver with the slightest motion. Fine for winter bouquets. Hardy annual.

**Maxima**—Large ..... **Pkt., 5c**

**Gracilis**—Dwarf, Slender ..... **Pkt., 5c**

## BROWALLIA

Handsome, free-flowering annual. Covered all summer with bright, rich blue and white flowers. Worthy of more general cultivation. Eighteen inches high.

**Mixed** ..... **Pkt., 5c**

## BRYONOPFSIS

An annual ornamental climbing gourd, bearing green fruit, which, as the summer advances, changes in color to bright scarlet, striped with white. Tender annual, of rapid growth and great beauty.

..... **Pkt., 5c**

## CACALIA

(Tassel Flower)

The cacalias, known by some as Flora's Paint Brush, produce scarlet and yellow tassel-shaped flowers during a great part of the summer. Hardy annual.

**Mixed**—All colors ..... **Pkt., 5c**

## CALANDRINIA

Pretty, dwarf-growing plants for massing. Succeed well in a light, rich soil and sunny exposure. They are annuals, but become perennial in warm climates, or if protected.

**Grandiflora**—Rosy lilac ..... **Pkt., 5c**

**Speciosa Alba**—Dwarf. Very fine ..... **Pkt., 5c**

## CALCEOLARIA

A very handsome and much-admired perennial, desirable either for the greenhouse or outdoor culture, producing a profusion of beautifully spotted and tigered flowers of unique form. They flower best in a rich, sandy loam, and can be propagated from either seed or cuttings. Some varieties are shrubby in appearance.

**Grandiflora**—Large flowered, self-colored, splendid, robust, profuse bloomers. .... **Pkt., 25c**

**Hybrida**—Tigered and spotted, brilliant. Finest mixture ..... **Pkt., 25c**



## CALLIOPSIS or COREOPSIS

A hardy annual, very showy and attractive. It is branching, and produces a mass of bright flowers, all shades of yellow, orange, and gold, with a dark, velvety center. Sow where it is to remain, and cut the flowers when in full bloom.

**Choice Mixed** ..... **Pkt., 5c**

## CALLIRHOE

A charming genus of hardy, annual, summer-blooming plants. Commences to bloom when only six inches high, and continues to yield a succession of attractive flowers throughout the summer and autumn.

**Pedata**—Dark red ..... **Pkt., 5c**

**Nana Compacta**—New. Very dwarf and compact. A profuse bloomer. .... **Pkt., 5c**

**Verticillata**—A trailing variety, bearing a profusion of crimson-purple flowers. .... **Pkt., 5c**

**CAMPANULA MEDIUM**—See Canterbury Bell.

## CANARY BIRD FLOWER

(Tropaeolum Canariense)

One of the best climbing plants, with graceful foliage of a delicate shade of green, and small, yellow blossoms, which, when half expanded, has a fancied resemblance to a canary bird. Half-hardy annual, of rapid growth.

**Yellow** ..... **Pkt., 5c**

## DESCRIPTIVE LIST OF CHOICE FLOWERS—Continued

## CANDYTUFT

(Iberis)

Well-known, hardy annual, thriving almost anywhere, and producing a profusion of bright, cheerful flowers. Very useful for cut flowers, borders, ribbons, or for conservatory decoration. Great improvement has been made in the colors during the last few years.

Purple .....	Pkt., 5c
White .....	Pkt., 5c
Dwarf Mixed—Compact habit .....	Pkt., 10c
Fine Mixed—All colors .....	Pkt., 5c

## CANTERBURY BELL

(Campanula Medium)

Very ornamental garden plants. Their large, bell-shaped flowers are borne on tall, graceful stalks, and are produced freely throughout the summer. Hardy biennials. Very showy and attractive.

Double and Single—Blue .....	Pkt., 10c
Double and Single—White .....	Pkt., 10c
Double and Single—Mixed .....	Pkt., 5c

CARDIOSPERMUM—See Balloon Vine.

## CARNATIONS

(Dianthus Caryophyllus)

Universally admired, deliciously fragrant, popular favorite. The largest and finest of the family of which the Pink and Sweet William are well-known members. Unsurpassed for richness and delicacy of form and color. Young plants produce the finest flowers, and fresh seed should be sown every year or two. Half-hardy perennial.

Early Flowering Vienna—Extra mixed. Pkt., 10c

Double Red—A splendid variety for florists. Pkt., 15c

Double White—Very fine. Pkt., 25c

Double Yellow—Choice. Pkt., 25c

Carnation Marguerite—In some of its habits this flower is a great improvement over all other varieties of carnations. The seed will give good flowering plants in four to five months. The flowers are large, very fragrant, borne in abundance and in a great variety of colors. Pkt., 10c

Fine Double Mixed—All colors. Pkt., 10c

Extra Choice Double Mixed—From superb varieties, including Flakes, Bizarres, and Selves. Pkt., 25c

## CASTOR BEAN

(Ricinus)

A highly-ornamental genus of half-hardy annual of stately growth, and large leaves of bronze or glossy green. By planting either singly or in groups, a striking effect is produced on lawns or pleasure grounds.

Sanguineus—Brilliant scarlet. Pkt., 5c

Borboniensis Arborescens—The largest variety. Tall and stately. Pkt., 5c

Mixed—Best varieties. Pkt., 5c

## CATCHFLY

(Silene)

A hardy annual, yielding for a long time a profusion of umbels of bright-colored flowers. The plant is covered with a glutinous moisture, to which flies adhere; hence its name.

White .....

Pkt., 5c

Red—Very fine .....

Pkt., 5c

Fine Mixed—All colors .....

Pkt., 5c

## CELOSIA

Graceful, free-blooming, half-hardy annuals, producing a profusion of beautiful, feathery flowers. Of the same family as the Cockscomb, but producing their flowers in plumes instead of combs. They can be grown in pots for the conservatory or greenhouse, or planted out after danger of frost is past.

Plumosa—Mixed colors of great brilliancy. Pkt., 25c

Argentea—Bears long, silver-white plumes which, when dried, are fine for winter bouquets. Pkt., 10c

## CENTAUREA

(Dusty Miller)

This genus embraces some of the finest silver foliage plants in cultivation, and, when arranged side by side, in figures or in borders, with dark and other ornamental foliage plants, rivals in interest and beauty the finest flowers. Sow early, under cover, or later in open ground, and transplant when two inches high. Annuals, biennials, and perennials.

Candidissima—The finest; handsome silver foliage. Leaves deeply indented. Half-hardy perennial ..... Pkt., 15c

Gymnocarpa—Foliage silver gray, drooping, graceful. Perennial ..... Pkt., 10c

Americana—Blue flowers. Annuals ..... Pkt., 5c

Moschata (Sweet Sultan)—Blue, yellow, and white mixed ..... Pkt., 5c

## CHRYSANTHEMUM

The annual chrysanthemums are rapidly coming to the front, both as greenhouse and garden plants. They should not, however, be confounded with the Japanese perennial kinds that are being so widely introduced. The annuals have recently been greatly improved, and we feel confident that they will not suffer by comparison with their foreign namesakes. Our list includes choice varieties.

Frutescens Marguerite, or Paris Daisy—White and yellow flowers ..... Pkt., 10c

Burridgeanum (Lord Beaconsfield)—White and rose. Very fine ..... Pkt., 5c

Venustum—White, crimson center ..... Pkt., 10c

Japonicum—Extra choice mixed, from the finest Japanese varieties. Perennial ..... Pkt., 25c

Double White ..... Pkt., 5c

Double Yellow ..... Pkt., 5c

Eclipse—Tricolor. Purplish scarlet, brown, and yellow. Choice ..... Pkt., 5c

Mixed—Very choice double ..... Pkt., 5c

## CINERARIA

Well-known, free-flowering greenhouse plants. The flowers are very brilliant, and of great variety of colors. One of the brightest and most valuable of early spring flowers. They can be planted out when the weather becomes settled, and propagate readily by dividing the roots. Perennial.

Hybrida—Double. Mixed. Extra choice: Pkt., 25c

Hybrida Nana—Mixed. Dwarf. Free flowering ..... Pkt., 25c

## CLARKIA

Handsome, free-flowering annuals of easy cultivation. Produce a fine effect massed in beds. Bear both single and double flowers, which are very bright and attractive.

Finest Mixed ..... Pkt., 5c

## CLEMATIS

Well-known, tall-climbing, perennial plants, of great beauty and elegance. Very desirable for arbors, latticework, and trellises, on account of their rapid growth.

Flammula—Covered with handsome tufts of white flowers ..... Pkt., 5c

Mixed Hybrids—All the choice varieties. Pkt., 10c

## CLOVER, Sweet Scented

(Trifolium Suaveolens)

A low-growing, hardy annual, of easy cultivation, highly prized for its delicately-scented foliage and flowers. Charming for beds and borders.

Pkt., 10c

## COBaea SCANDENS

A handsome, rapid-growing, climbing perennial plant, having large, bell-shaped flowers, beautiful foliage, and peculiarly delicate and curious tendrils.

Tender Perennial ..... Pkt., 5c

## DESCRIPTIVE LIST OF CHOICE FLOWERS—Continued

## COCKSCOMB

(Celosia Cristata)

Very ornamental and interesting plants, producing crest-like flowers of great beauty, resembling a cock's comb. The tufts of some varieties grow to an enormous size, and their feathery, graceful appearance and brilliant colors render them very attractive. Half-hardy annuals, of easy cultivation.

Variegated—Combs beautifully variegated with crimson and gold.....	Pkt., 10c
Japan—New and magnificent combs, massive and fine .....	Pkt., 10c
Dwarf Mixed—Finest dwarf varieties; combs as large as the taller sorts.....	Pkt., 10c
Tall Mixed—The best tall varieties.....	Pkt., 10c

## COLUMBINE

(Aquilegia)

Commonly known as the honeysuckle. A hardy perennial, producing handsome flowers, of unique form and many bright and attractive colors. They are hardy, and the seed may be sown as soon as the ground can be prepared. Can be increased by dividing the roots.

Chrysanthia—Golden yellow. Fine .....	Pkt., 10c
Double White—Very handsome .....	Pkt., 10c

Mixed—Best double and single varieties. Very fine .....

## COSMOS.

Also known as Mexican Dahlia. A tall, branching annual, of easy cultivation, having delicate, needle-shaped foliage. The flowers are produced in profusion, and are usually bright and attractive, resembling single dahlias. Colors range through rose and purple to pure white. A desirable and favorite plant.

Hybrida Giant Mixed.....	Pkt., 5c
Dawn—An early-flowering strain; flowers pure white .....	Pkt., 5c

## COWSLIP.

(Dodecatheon Meadia)

A low-growing hardy perennial, blooming very early in spring. It is of easy cultivation, and can be multiplied by dividing the roots. A popular and very desirable border plant.

Choice Mixed .....

Pkt., 25c

## CYPRESS VINE.

(Ipomoea Quamoclit)

A climbing annual of rapid growth, having handsome, fern-like foliage and a profusion of bright, attractive flowers. When furnished a suitable support, it becomes very ornamental and showy. Plant the seeds where they are to remain as soon as the ground becomes thoroughly warmed.

White .....

Pkt., 5c

Scarlet .....

Pkt., 5c

Mixed—All colors .....

Pkt., 5c

## DAISY.

(Bellis Perennis)

A well-known, half-hardy perennial, blooming early in spring. Very desirable for borders. Sow early, under cover if necessary, and transplant, when well started, to a moist, shaded place. They soon spread, and the roots can be divided.

Double White .....

Pkt., 10c

Double Mixed .....

Pkt., 10c

## DATURA.

(Trumpet Flower.)

Ornamental, half-hardy, perennial plants, producing large, sweet-scented, trumpet-shaped flowers. Succeeds in almost any soil. The roots may be preserved over winter, like dahlias.

Double Mixed—All colors.....

Pkt., 5c

## ESCHSCHOLTZIA

(California Poppy.)

A showy, free-flowering genus of plants, bearing handsome, graceful foliage and flowers of the richest colors. They bloom very early, and should be planted as soon as the ground can be prepared where they are to remain, as they will not bear transplanting. Hardy annual, thriving best in light, warm soil.

California—Yellow, orange center.....

Pkt., 5c

Mandarin—The colors of the petals are orange inside, brilliant scarlet outside.

Choice .....

Pkt., 5c

Mixed—All colors. Very fine.....

Pkt., 5c

Mammoth Package California Poppy.....

Pkt., 10c

## FEVERFEW.

(Matricaria Capensis)

A free-flowering, ornamental, hardy annual, desirable for bedding or pot culture. It produces very double white flowers. Sow early, and plant out into pots or open ground.

Best Double White.....

Pkt., 10c

## FORGET-ME-NOT

(Myosotis)

Low-growing, popular, perennial plants, blooming the first season, if sown in the fall or very early in the spring. Fine for borders and edgings. A constant and profuse bloomer. Flowers mostly blue, with white or yellow center.

Dissitiflora—Deep blue .....

Pkt., 10c

Falustris—Light blue .....

Pkt., 5c

Mixed—Choice, all shades .....

Pkt., 10c

## FOUR O'CLOCK

(Mirabilis—Marvel of Peru)

Also called Beauty of Night. A well-known hardy annual, growing luxuriantly in any ordinary soil, and bearing a profusion of bright, handsome flowers of various colors, shades, and markings, from scarlet, through pink, to white, and from salmon, through orange, gold, and straw, to white. Each plant produces self-colored and variegated flowers. Some varieties are fragrant, and some have ornamental foliage. They have recently been greatly improved, and are becoming very popular. They are tall and branching, and should have plenty of room.

Choice Mixed—Self-colored and variegated, in great variety .....

Pkt., 5c

## FOX GLOVE

(Digitalis)

A tall-growing biennial, with large leaves, and spikes of vari-colored and spotted flowers. Greatly improved of late, and now a really magnificent plant.

Extra Mixed .....

Pkt., 5c

## GAILLARDIA

A fine-looking plant, flowering in great profusion and brilliancy the entire season. Hardy annual, becoming perennial in warm climates.

Grandiflora—Choice mixed. All colors.....

Pkt., 5c

Picta-Lorenziana—Magnificent flowers, resembling some varieties of Japanese chrysanthemums. Various colors and shades. Very desirable .....

Pkt., 5c

## GLOBE AMARANTH

(Gomphrena)

Extremely handsome everlasting. The flowers, which should not be cut till fully matured, will keep for years, and are fine for fresh-cut flowers, and almost indispensable for winter bouquets. Half-hardy annual.

Purple .....

Pkt., 5c

White .....

Pkt., 5c

Mixed—All colors .....

Pkt., 5c

## DESCRIPTIVE LIST OF CHOICE FLOWERS—Continued

## GODETTA

Beautiful plants, of easy cultivation, producing large, showy flowers. Hardy annuals, of dwarf habit, recently much improved.

**Best Varieties, Mixed** ..... Pkt., 5c

## GOLDEN FEATHER

(*Pyrethrum Parthenifolium Aureum*)

One of the most desirable border plants in cultivation. Foliage delicate, beautifully fringed, and of a bright golden tint. The flowers are insignificant, and, to secure the most elegant borders, cut out the spikes on which the buds are formed as fast as they appear. Hardy perennial, of easy cultivation ..... Pkt., 5c

## GOURDS

(*Cucurbita*)

Extremely rapid-growing, trailing annuals, of easy cultivation. Useful for walls, fences, and unsightly places. The fruit of many of the varieties is elegant and curious, and some of them may be made useful as dippers, bottles, and other articles.

**Orange** ..... Pkt., 5c

**Egg-Shaped**—White, very useful for nest-eggs. Does not crack or decay ..... Pkt., 5c

**Dipper or Bottle**—Useful and handsome ..... Pkt., 5c

**Hercules' Club**—Club-shaped. Large and long ..... Pkt., 5c

**Mixed**—Seed saved from the most useful, elegant and unique varieties ..... Pkt., 5c

## GYPSOPHILA

Delicate, useful, free-flowering little plants, for baskets, edgings, or bouquets. Annual and perennial.

**Muralis**—Pink. Hardy annual ..... Pkt., 5c

**Paniculata**—White. Best for winter bouquets. Hardy perennial ..... Pkt., 5c

## HELICHRYSUM

(Eternal Flower)

Very ornamental, hardy annual for the garden, and one of the best of all for winter bouquets. Gather when partially opened, and dry in the shade. Will thrive in any good garden soil.

**White**—Mixed, dwarf and tall ..... Pkt., 5c

**Mixed**—Dwarf and tall. All colors. Very elegant ..... Pkt., 5c

## HIBISCUS

Fine, showy, hardy annual, two feet high, with glossy leaves and large, brilliant flowers. In bloom throughout the entire season, and, if potted and removed indoors, will bloom all winter. Of easy cultivation.

**Extra Mixed** ..... Pkt., 5c

## HOLLYHOCK

(*Althea*)

More success has been attained in improving the hollyhock than almost any other flower, the double varieties being now almost as perfect as camellias, and quite as varied and brilliant in color. Their majestic stalks, crowded on all sides with magnificent flowers, are a sight not soon to be forgotten. Our seed is saved from a very large collection of the best strains. Hardy perennial, six feet high, of easy cultivation.

**Double Yellow**—Choice ..... Pkt., 10c

**Double White**—Very large ..... Pkt., 10c

**Double Scarlet**—Superb ..... Pkt., 10c

**Double Choice Mixed**—All colors and many shades. Very fine ..... Pkt., .5c

## HYACINTH BEAN

(*Dolichos*)

Rapid-growing, ornamental, climbing annuals, bearing clusters of beautiful purple and white

flowers, followed by highly ornamental seed pods. Plant where they are to remain, as they do not bear transplanting.

**Giganteus**—Tall-growing; large, purple flowers ..... Pkt., 5c

**Lahlab**—Mixed ..... Pkt., 5c

## IPOMOEA

One of the most beautiful climbing plants in cultivation, for the greenhouse or sheltered situations outdoors. It can be planted alone, or is very effective in combination with other vining plants. It belongs to the same family as the morning glory. Flowers are of the brightest colors. Tender annual; easily cultivated.

**Bona Nox**—Large, fragrant, violet-blue flowers, opening toward evening, the name meaning Good night ..... Pkt., 5c

**Limata Elegantissima**—Rich, purple center, margined with white ..... Pkt., 5c

**Fine Mixed**—All colors ..... Pkt., 5c

## IPOMOPSIS

(Standing or Tree Cypress)

Beautiful plants, with fine, feathery foliage and long spikes of dazzling orange and scarlet flowers. Very effective for conservatory or outdoor decoration. Prefers a dry, warm situation. Half-hardy perennial.

**Mixed** ..... Pkt., 5c

**JERUSALEM CHERRY**—See *Solanum Capsicastrum*.

## KAULFUSSIA

A low-growing plant, which covers itself with a mass of brilliant flowers of many intense colors. In shape and appearance it resembles the Dwarf Aster. Hardy annual, six inches high, easily cultivated.

**Mixed**—All colors ..... Pkt., 5c

**LAGURUS**—See Hare's Tail Grass.

## LANTANA

A free-flowering, shrubby plant, suitable for outdoor or pot culture. The flowers emit an agreeable odor, and are of many shades of purple, orange, and white. Half-hardy perennial, two feet high.

**Finest Hybrids**—Mixed ..... Pkt., 5c

## LARKSPUR

(*Delphinium*)

A very ornamental class of profuse-blooming plants. Their tall spikes of many-colored flowers produce a striking effect when planted in groups. They are very hardy, and the seed may be sown as soon as the ground can be prepared. The perennials can be multiplied by dividing the roots. Height one to three feet; annuals and perennials noted.

**Dwarf Rocket Mixed** ..... Pkt., 5c

**Tall Stock-Flowered—Mixed Perennial** ..... Pkt., 5c

**Bismarck**—Robust habit, stock flowered red striped. Very fine. Perennial ..... Pkt., 10c

**Candelabrum-Formed**—Stalks branching like a candelabrum. Annual ..... Pkt., 10c

**Bee**—*Elatum*. Mixed. Perennial ..... Pkt., 5c

**Nudicaule**—Scarlet. Perennial ..... Pkt., 10c

**Formosum**—Dark blue. Perennial ..... Pkt., 5c

**Mixed**—Annuals. All colors ..... Pkt., 5c

## LINUM

(Scarlet Flax)

Beautiful, slender, free-flowering plants of many bright colors. Hardy annuals and perennials, eighteen inches high. They flower well in any ordinary soil, and are very showy.

**Best Mixed**—Many colors and shades ..... Pkt., 5c

## DESCRIPTIVE LIST OF CHOICE FLOWERS--Continued

## LOBELIA

Delicate, low-growing, annual plants, of the greatest value for borders, ribbons, edgings, rock-work, and hanging baskets. The seed is very fine, and can be sown early in boxes, or a little later in open ground, and the plants transplanted.

**Crystal Palace Compacta**—Very dwarf. **Pkt., 5**

Blue—Blue. Spreading. Fine for baskets. **Pkt., 5c**

Alba—Pure White. **Pkt., 10c**

**Finest Mixed** ..... **Pkt., 10c**

## LUPIN

(*Lupinus*)

A genus of very desirable shrubby plants, growing from a few inches to several feet in height, bearing long spikes of various-colored flowers. They can be pruned into handsome shapes. Annual and perennial.

**Cruikshanksi**—Dark blue annual. **Pkt., 5c**

**Mixed**—Best annual varieties of all colors **Pkt., 5c**

## MARIGOLD

(*Calendula* and *Tagetes*)

The marigolds are well-known, hardy annuals, of easy cultivation, varying in height from the French, of a few inches high, to the African, two feet. They have responded to the florist's efforts, and are now really magnificent flowers. The colors are gold, orange, and varying shades of these colors. Some are densely double, large, regular in form, and very fine. They flower early, and continue to bloom all summer.

**Meteor, Calendula**—Flowers striped dark and light orange. Double. Very fine. **Pkt., 5c**

**Prince of Orange, Calendula**—Choice. **Pkt., 5c**

**Double Mixed, Calendula**—All shades. **Pkt., 5c**

Choice. **Pkt., 5c**

**African, Tagetes**—Double mixed. **Pkt., 5c**

## MAURANDIA

A graceful, tender, perennial climber, for the greenhouse, conservatory, or flower garden. Blooms the first season from seed. The flowers resemble those of the foxglove and are produced abundantly.

**Finest Mixed Colors** ..... **Pkt., 10c**

## MIGNONETTE

(*Reseda*)

Well-known hardy annual, varying in height from eight to eighteen inches. Easily grown. Produces abundant spikes of exceedingly fragrant flowers of several different colors. The flowers should all be cut when in full bloom, as the plant soon exhausts itself in maturing seed. By sowing at intervals, flowers can be had during the whole season. No garden is complete without the following choice varieties:—

**Resada Odorata Grandiflora**—The well-known large-flowering Sweet Mignonette. **Pkt., 5c**

**Crimson-Flowered Giant**—Large spikes of crimson flowers. **Pkt., 5c**

**Parson's New White**—New and valuable. **Pkt., 5c**

**New Hybrid Spiral**—A strong grower, abundant bloomer, and very fragrant. **Pkt., 5c**

**Golden Queen**—Very fine, new variety, with flowers of a golden hue. Highly effective. **Pkt., 5c**

## MIMULUS

(Monkey Flower)

Extremely handsome plant, with large, brilliant, curiously spotted and striped flowers. Sow in the fall for early-flowering greenhouse and conservatory plants, and early in the spring for summer blooming. They all like damp, shady situations. Hardy annuals and half-hardy perennials.

**Hybridus Tigrinus**—Most beautiful spotted blotched varieties. Mixed. **Pkt., 10c**

**Hybridus Tigrinus Flore Pleno**—Beautiful, double-spotted varieties. Mixed. **Pkt., 10c**

## MOON FLOWER

(*Ipomoea Grandiflora*)

One of the most rapid-growing annuals in cultivation, covering an arbor, trellis, or lattice-work twenty feet high in eight or ten weeks. The flowers are large, of a waxy white appearance, and very showy. They open out on cloudy days and in the evenings.

**Pkt., 15c**

## MORNING GLORY

(*Convolvulus Major* and *Minor*)

The tall varieties are popular, well-known, rapid-growing climbers of the easiest cultivation. Valuable in every garden for trailing on fences, arbors, and verandas. The minor or dwarf varieties flower very freely, and do not require support.

Blue—Tall. **Pkt., 5c**

White—Tall. **Pkt., 5c**

Tall Mixed—All colors. **Pkt., 5c**

Dwarf Mixed—*Convolvulus Minor*. All colors. **Pkt., 5c**

Giant Japanese Morning Glory—Flowers of immense size, with an almost endless variety of color and markings. **Pkt., 5c**

## MUSK PLANT

(*Mimulus Moschatus*)

Cultivated on account of its rich, musky odor. Annual, becoming perennial indoors and in warm climates. Should have a rich soil and ample moisture.

**Pkt., 10c**

## NASTURTUM

(*Tropaeolum*)

Both the leaves and flowers of the Common Tall Nasturtium are very handsome for table decorations. The leaves are also used, when young, as salad, and the seeds, gathered while green and tender, are esteemed by many for pickles. (See Vegetable List.) The Lobbianum varieties are superior to the common sorts when desired for ornamental purposes only. The flowers are larger, more compact, richer, and more varied in color, and are produced more abundantly; they contrast charmingly with the bright, clean, luxuriant foliage. Fragments of the vine, cut and placed in vases, will remain fresh, and even bloom, for many days. The dwarf varieties have also recently been greatly improved, and are now among the most attractive bedding and border plants. All nasturtiums are rapid growers, flowering best where the soil is not too rich. Hardy annuals, of easy cultivation, the tall varieties growing five to ten feet high.

## Tall Varieties

(*Tropaeolum Lobbianum*)

Spitfire—Bright scarlet. **Pkt., 5c**

Carmine. **Pkt., 5c**

King of the Blacks. **Pkt., 5c**

Blood Red. **Pkt., 5c**

Golden Yellow. **Pkt., 5c**

Lobbianum—Finest mixed. **Pkt., 5c**

Mammoth Package Tall Mixed Varieties. **Pkt., 10c**

## Dwarf Varieties

(*Tropaeolum Minor*)

Pearl White. **Pkt., 5c**

Dark Crimson. **Pkt., 5c**

Golden King—Fine. **Pkt., 5c**

Empress of India. **Pkt., 5c**

Dwarf Mixed—All colors. **Pkt., 5c**

## NICOTIANA

(*Affinis*)

A very showy plant, producing pure white, star-shaped flowers of delicious perfume. Taken up in the fall, cut back, and potted, will bloom freely all winter. Half-hardy annual, three feet high. **Pkt., 5c**

## DESCRIPTIVE LIST OF CHOICE FLOWERS---Continued

**NOLANA**

A trailer of much beauty, for rockwork, vases, and baskets. The flowers are showy, and produced very freely. Hardy annual. Mixed.

**Pkt., 5c****PAEONY**

(Herbacea Chinensis)

An exceedingly handsome perennial, producing magnificent, large flowers, that bloom early in spring. They are as double and varied in color as the finest poppies, which they somewhat resemble. The flowers are formed on single stalks, that rise just above a mass of handsome foliage, and are very attractive. The seed should be sown

early, and the bulbs transplanted the following spring, when they will bloom.

**Choice Mixed Double**—From a splendid collection . . . . . **Pkt., 25c**

**PAMPAS GRASS**

(Gynerium Argenteum)

A noble ornamental grass, easily grown from seed, producing majestic plumes, that are inimitable for winter decoration. When well dried, they must be taken by the stalk and thoroughly shaken to bring out their beautiful plume-like appearance. Half-hardy perennial, ten feet high.

**Pkt., 5c****PANSY.**

The pansy is one of the most popular of all annual flowers, and is justly held in the highest esteem. It furnishes a profusion of bright, showy flowers of a great variety of rich colors, shades, and markings, throughout the entire season, the flowers remaining perfect a long time. It should have the richest soil, abundant moisture, and a shaded locality. The following is a list of choice varieties.

<b>Azure Blue</b> . . . . .	<b>Pkt., 10c</b>
<b>Emperor William</b> —Indigo; dark center . . . . .	<b>Pkt., 10c</b>
<b>King of the Blacks</b> —Velvety black . . . . .	<b>Pkt., 10c</b>
<b>Mahogany Colored</b> —One of the very best . . . . .	<b>Pkt., 10c</b>
<b>Odier</b> —New French blotched . . . . .	<b>Pkt., 15c</b>
<b>French Large Flowering</b> —Mixed . . . . .	<b>Pkt., 10c</b>
<b>Lord Beaconsfield</b> —Purple, shading to light blue. Large and fine . . . . .	<b>Pkt., 10c</b>
<b>Pure Yellow</b> . . . . .	<b>Pkt., 10c</b>
<b>Snow Queen</b> —Pure White . . . . .	<b>Pkt., 10c</b>
<b>Trimardeau</b> —The flowers of this variety are the largest of any pansy yet produced, and for variety and beauty of marking, brilliance of color, and sta-	

bility, have no superior . . . . . **Pkt., 10c**  
**Fine Mixed** . . . . . **Pkt., 5c**

**PASSION FLOWER**

(Passiflora)

A family of climbers, bearing a variety of interesting and beautiful flowers. Of tropical origin, it is peculiarly adapted to the warm valleys of the Pacific Coast and the Southern States. Half-hardy perennial, of easy cultivation.

**Coerulea**—Handsome blue and white flowers . . . . . **Pkt., 10c**  
**Coerulea**—Choice mixed . . . . . **Pkt., 20c**

**PENTSTEMON**

Beautiful, hardy perennial, herbaceous plants, with extremely brilliant blooms. A good bed of pentstemons once seen will not soon be forgotten. Their bell-shaped flowers are borne on long spikes, and are produced abundantly all summer. Varieties differ in growth from six inches to three feet.

**Fine Mixed**—All colors. Very showy . . . . . **Pkt., 10c**

## DESCRIPTIVE LIST OF CHOICE FLOWERS--Continued

## PERILLA

(Nankinensis)

Ornamental foliage plant, for edging and ribbon bedding; very easily cultivated. Color blackish purple. Very striking when planted with Centaureas and other silvery and light ornamental foliage plants. Hardy annual; height ten to eighteen inches.

**Best Mixed** ..... Pkt., 5c

## PETUNIA

Too much can not be said in praise of the petunia as a bedding plant. Our clear, bright summers seem to bring out its best qualities. During the whole season it is covered with large, showy blossoms, which are always bright and fresh, in spite of heat and drought. The flowers are of an almost infinite variety of colors and markings, and quite as varied in form; large and small, fringed and plain, double and single. Hardy annual, varying in height from nine to eighteen inches.

**Double Mixed**—Choice hybrids, best all colors ..... Pkt., 20c

**Large Flowering Fringed**—Mixed ..... Pkt., 15c

**Blotched and Striped** ..... Pkt., 15c

**Grandiflora**—Best mixed. Large flower-

ing. Many colors and varieties ..... Pkt., 10c

**Pure White** ..... Pkt., 5c

**Fine Mixed**—In great variety ..... Pkt., 5c

## PHLOX DRUMMONDII

The blooms of Phlox Drummondii are unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. They are abundant, almost covering the foliage, and of long duration. Very desirable, and easily grown. Hardy annual, one foot high; may be planted in the fall or early spring.

**Alba**—Pure white ..... Pkt., 10c

**Black Warrior**—Dark purple ..... Pkt., 10c

**Scarlet** ..... Pkt., 10c

**Yellow** ..... Pkt., 10c

**Finest Mixed**—Including large, flowering kinds ..... Pkt., 5c

## PINK

(Dianthus)

The dianthus family embraces some of the finest of all flowering plants. The blooms are of the richest and most pleasing colors, and nothing can surpass the exquisite fragrance of some varieties. They are hardy, and become perennial in warm climates and when protected. New seed should be sown every year or two. Old plants fail rapidly; young ones produce much the finest flowers, and the greatest number. One foot high.

**Double China Mixed** ..... Pkt., 5c

**Double White** ..... Pkt., 10c

**Double Diadem**—Finest mixed. All col-

ors ..... Pkt., 5c

**Double Imperial**—Fine mixed ..... Pkt., 5c

**Double Japan**—Beautiful fringed varie-

ties. Mixed ..... Pkt., 5c

## POPPY

(Papaver)

The poppy is well known and really a magnificent flower; borne separately, on tall stalks; both double and single, and of many bright colors. They are hardy annuals, and may be sown as soon as the ground can be prepared. By lancing the flower stalks of the Double Carnation variety, when in bloom, opium is obtained. Ten to twenty inches high.

**The Shirley**—A strain of marvelous beauty, with colors ranging from pure white to rose, pink, carmine, and brilliant crimson; some are edged with white. The petals have a glossy, silk-like texture ..... Pkt., 5c

**Double Scarlet**—Carnation flowered ..... Pkt., 5c

**Double White**—Carnation flowered ..... Pkt., 5c

**Double Mixed**—In great variety. Very choice ..... Pkt., 5c

## PORTULACA

The brightest of all flowers for bedding purposes. In bloom from early summer until killed by frosts. The single varieties are even more handsome than the double, and a paper of Grandiflora Single Mixed will produce a bed of unrivaled beauty. Thrives best in a sunny exposure and a light, sandy soil. Annual, of easy cultivation, ten to twelve inches high.

**Single Mixed** ..... Pkt., 5c

**Double Mixed** ..... Pkt., 10c

## PRIMROSE, EVENING

(Oenothera)

The Oenothera, or Evening Primrose, produces large, showy blossoms, which are fully expanded only during the evening and early in the morning. The flowers, which are from three to four inches across, attract much attention, on account of their size, beauty and rapidity with which they open. They are constant and prolific bloomers. The following are the best perennial varieties:

**Lamarkiana**—Height four feet, with gorgeous yellow flowers three or four inches across ..... Pkt., 5c

**Aculis Alba**—Dwarf, producing large, beautiful, pearl-white flowers. Hardy perennial, prostrate habit, six inches high ..... Pkt., 5c

## PRIMULA SINENSIS

(Chinese Primrose)

Well-known greenhouse and conservatory winter-blooming plants. Nothing can surpass them for pot and indoor blooming plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a sandy loam and leaf mold. Tender perennial.

**Fimbriata**—Choice fringed varieties mixed ..... Pkt., 25c

**Alba**—Pure White ..... Pkt., 25c

**Fern-Leaved Choice Mixed** ..... Pkt., 25c

**Extra Mixed**—In great variety ..... Pkt., 25c

## PYRETHRUM

Useful bedding plants, and some of the new and improved varieties are among the best edging and border plants in cultivation. They produce handsome flowers, and the foliage of some varieties contrasts with charming effects with the amaranthus, centaureas, and other ornamental foliage plants. Hardy perennials, of easy cultivation.

**Roseum**—Dried flowers of this variety, pulverized, form Persian insect powder ..... Pkt., 10c

**Choice Mixed** ..... Pkt., 10c

## RHODANTHE

A dwarf everlasting flower, of great merit. Succeeds best in a light, rich soil and a warm, sheltered situation. Cut as soon as fully blown, and dry in the shade. Half-hardy annual.

**Extra Mixed**—All colors ..... Pkt., 5c

## SALPIGLOSSIS

Pretty, ornamental annuals, bearing richly-colored, funnel-shaped flowers. Marbled, yellow, crimson, scarlet, purple, and blue. A handsome, desirable plant of easy cultivation, deserving more general attention.

**Finest Mixed** ..... Pkt., 5c

## SALVIA

(Flowering Sage)

Very ornamental plants. Flowers borne in spikes of fiery red, crimson, and blue, continuing in bloom until late in fall.

**Salvia Splendens**—Bright scarlet ..... Pkt., 10c

**Salvia Patens**—Pure blue ..... Pkt., 10c

**Salvia Mixed** ..... Pkt., 10c

## DESCRIPTIVE LIST OF CHOICE FLOWERS—Continued

**SCABIOSA**

(Mourning Bride)

Handsome flowers, of delicious fragrance, borne on long, branching stalks, that have but little foliage. The flowers resemble in appearance some varieties of dahlias, and are very symmetrical. Colors vary from white to purple and scarlet. Half-hardy perennial, of easy cultivation.

**Finest Double Mixed Dwarf**—All colors. **Pkt., 5c**

**SCARLET FLAX**—See Linum.**SCHIZANTHUS**

Elegant, free-flowering, garden and greenhouse plant. Half-hardy annual and free bloomer, of branching habit. Very fine.

**Fine Mixed Varieties**—Of all colors. **Pkt., 5c**

**SENSITIVE PLANT**

(Mimosa)

A peculiar plant, with globular heads of pink flowers, interesting on account of the irritability of its leaves and stalks, which will, on being touched or shaken, close and droop as if dead.

**Tender Annual** ..... **Pkt., 5c**

**SMILAX**

The most useful and beautiful of all climbing plants for florists. Its graceful form and elegant foliage are admired by all. It can be trained from pots or hanging baskets around windows and over ceilings, with charming effects. Useful for

cut flowers and vases. It may be made to climb or droop, as desired. Tender perennial.

**Pkt., 5c****SNAPDRAGON**

(Antirrhinum)

One of the most useful and showy of border plants. Of almost every color, and striped as beautifully as carnations. They have recently been much improved, and are now really magnificent. The flowers are singular in form, and, when taken between the thumb and finger, and alternately pressed and released, will open and close with a snapping motion, from which they take their name. Hardy perennials of easy cultivation.

**Tall Varieties Mixed** ..... **Pkt., 5c**

**Dwarf Varieties Mixed** ..... **Pkt., 5c**

**SOLANUM**

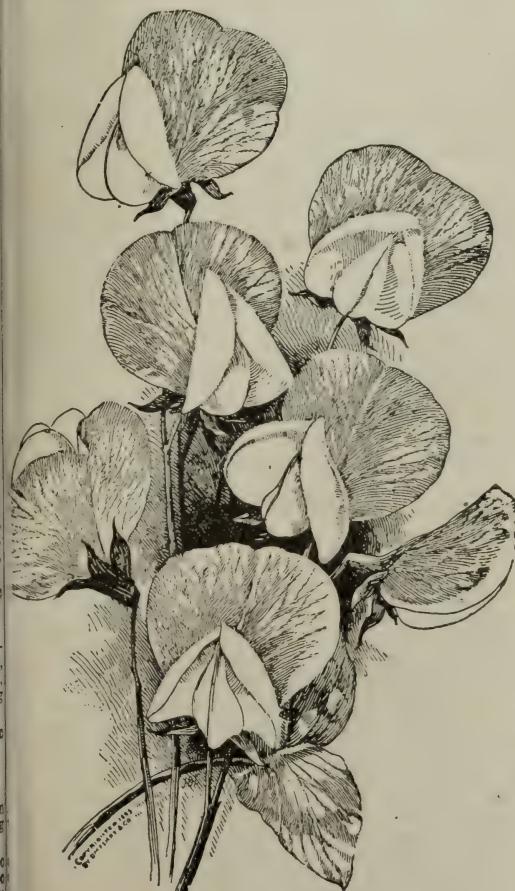
An interesting, ornamental greenhouse and garden shrub, having beautiful glossy leaves and handsome, scarlet fruit; very attractive and showy. Half-hardy perennial.

**Capicastrum**—Jerusalem Cherry, or miniature orange tree. Covered with small, scarlet fruit ..... **Pkt., 10c**

**Fine Mixed** ..... **Pkt., 15c**

**STOCKS**

The stock, known by some as Gilliflower, has in recent years been so greatly improved as to be considered almost indispensable for bedding and edgings. Its varied and brilliant colors, profusion of blooms, and delicious fragrance render



it a popular favorite. Some of the colossal varieties, which are included in the large flowering finest mixed, are truly magnificent. Hardy annuals, except where noted.

**Double German Ten-Weeks**—Mixed ..... **Pkt., 5c**

**Double Ten-Weeks**—Pure white ..... **Pkt., 10c**

**Emperor or Perpetual**—Beautiful colors. **Pkt., 15c**

Mixed perennial ..... **Pkt., 15c**

**Brompton**—Mixed, all colors ..... **Pkt., 15c**

**SUNFLOWER**

(Helianthus)

A well-known plant, adapted, by its stately growth, for a bankground to the lawn or a screen to hide unsightly places. It is also known as an absorbent of miasma, in damp or ill-drained situations. The flowers, especially of the double varieties, are really quite attractive.

**Double Orange**—Californicus ..... **Pkt., 5c**

**Globosus Fistulosus**—Large, deep yellow. **Pkt., 10c**

Very double ..... **Pkt., 10c**

**Mammoth Russian**—Largest single variety. (See also Vegetable List). **Pkt., 5c**

**SWEET PEAS**

Our list is comprised of the seventy-five best varieties.

The almost endless number of distinct varieties makes the sweet pea one of the most popular and

## DESCRIPTIVE LIST OF CHOICE FLOWERS—Continued

interesting flowers cultivated. It is one of the best climbing annuals; very free flowering, with an almost endless variety of shades and markings. The flowers are produced in great abundance for a long period.

**CULTURE.**—Plant the seed in rich, mellow soil, taking care not to cover it more than two inches. When the plants are about five inches high, furnish support for the vines to run upon. Cut the flowers freely, for, if the seed-pods are allowed to form, the plants will soon stop flowering.

We always add the new varieties to our List, if not listed here write us.

## WHITE

**Blanche Burpee**—One of the best pure white varieties.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Emily Henderson**—The best white in cultivation; the flowers are of the largest size and pure white. A vigorous grower and free bloomer.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Mrs. Sankey**—Although this is classed as a pure white, in some lights it shows a tinge of warm shell pink which is very delicate and beautiful.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Queen of England**—One of the best of the pure whites.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

## VERY LIGHT PINK, ALMOST WHITE

**Lemon Queen**—Standards very light pink and light straw, blended and shaded on white.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Modesty**—White, tinted with pink.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Ramona**—Blush and white striped, of good size and form.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Sensation**—Large flowers, light buff, blush, and white.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

## LIGHT PINK AND PRIMROSE.

**Coquette**—Standard, mauve and fawn, blended on primrose; wings, primrose.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Lottie Hutchins**—Primrose, striped with pink. Very beautiful.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Stella Morse**—Buff, with tint of pink, showing a little deeper at the edges; standard and wings the same.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

## PALE YELLOW OR PRIMROSE.

**Mrs. Ecford**—White, shaded with primrose; delicate and rich.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Queen Victoria**—Light primrose yellow; very hardy and of good substance.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

## SHADES OF PINK.

**Blushing Beauty**—Light pink, with a suggestion of mauve.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Katherine Tracy**—Soft, brilliant pink in color; a free bloomer; very vigorous and hardy.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Mrs. Gladstone**—Large, beautiful flowers; standards, delicate soft pink.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Prima Donna**—Very large, perfect flowers, of a brilliant yet soft shade of pink.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Princess Beatrice**—Standard, light pink, shaded with buff. Wings, bright rose pink.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Royal Robe**—Bright, rose-pink flowers; very large hooded form.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Venus**—A soft, salmon-buff self-color; of large size and hooded form. While a vigorous grower, it is graceful, delicate, and decidedly attractive.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

## ROSE AND PINK

**Apple Blossom**—Standard crimson pink. Wings white, tinged and shaded with pink.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Blanche Ferry, Extra Early**—The earliest sweet pea in cultivation; the large pink and white flowers and very showy; the plant is vigorous and an exceedingly free bloomer.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Crown Jewel**—Violet rose and primrose. A very beautiful sort.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Eliza Eckford**—Large flower. Rosy pink over white ground. Exceedingly delicate.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Isa Eckford**—Delicate creamy-white and rose pink flowers; of beautiful form.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Lovely**—Large, beautiful flowers. A delicate shade of pink.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Royal Rose**—Standard, deep rose pink; wings a lighter shade of the same color. One of the largest and best of the pink sorts.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

## ORANGE AND PINK

**Aurora**—Striped and flaked with delicate, orange salmon pink over white ground. Very brilliant and beautiful.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Lady Mary Curry**—Crimson orange pink, very distinct and beautiful.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Lady Penzance**—Orange pink, showing veins of orange rose.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Mrs. Joseph Chamberlain**—White, striped with bright rose carmine. Very distinct and striking.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Orange Prince**—Standards, pink, suffused with orange; wings, bright lake pink. Very distinct in color.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Oriental**—Deep orange pink, of good substance, very large, and finely formed.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

## LAVENDER AND MAUVE

**Butterfly**—White, tinted with lilac; very delicate and beautiful.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Captain Clark**—Standard, white, shaded with light crimson. Wings, white, shaded with lavender.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Captivation**—Standard, magenta. Wings, same with a suggestion of purple; almost self-colored. This is a distinct shade in sweet peas.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Countess of Radnor**—Self-colored in a very distinct and beautiful shade of lavender.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Dorothy Tennant**—Rose purple, self-colored. Large size, very distinct and beautiful.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Emily Eckford**—Rose purple, suffused with blue.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

**Gray Friar**—Heliotrope, marbled on white. Large size, hooded form.

Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c

## DESCRIPTIVE LIST OF CHOICE FLOWERS—Continued

uanita—Large, beautiful flowers. Pure white, striped with a delicate shade of lavender.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Captain of the Blues—One of the largest of the blue-flowered sorts. Standards, bright purple blue; wings a little lighter shade of blue.
ady Nina Balfour—Standard mauve, wings lavender. Large and finely formed.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
ottie Eckford—Standard, a delicate shade of magenta blue; wings, shaded lavender, deepening into violet at edge.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Duke of Clarence—Very deep rosy claret. One of the largest flowering varieties, and the very best of the dark colors.
laid of Honor—Standard, white, shaded with lilac. Wings, white, shaded with lavender.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
<b>BRIGHT RED</b>		
merica—White, nearly covered with splashes, stripes, and dots of bright carmine. Very brilliant.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Indigo King—A large, fine-shaped flower, and one of the darkest, deep maroon standards and indigo-blue wings.
ardinal—Deep, rich, carmine-red flowers of robust habit, and one of the brightest reds in cultivation.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
irefy—An intense crimson scarlet, of large, open, and expanded form. One of the best bright reds yet offered, and its fiery coloring makes it a most desirable bouquet variety.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Monarch—Standard dark violet and purple, wings violet. A very dark variety.
gne—Bright red. Practically self-colored, though wings are more crimson in well-matured blossoms.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
ars—Bright red, self-colored. Rather above medium size. Hooded form.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Navy Blue—Very large and of fine form. An exceedingly rich deep blue.
alopian—Flowers are of grand size and well-expanded form. Standards quite broad, of good substance, slightly pointed, with the upper edges well recurved. Coloring is a vivid red. The wings are large, slightly recurved, deep red, tinged with rose.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
unproof—Color intense fiery red; one of the richest-colored sorts yet introduced. The flowers are faultless in form and of exceptionally good substance.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Princess of Wales—Standard purple, wings blue, both striped on white.
<b>SCARLET AND CRIMSON</b>		
ashion—Rose-magenta, self-colored. A distinct shade.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
afety—Light magenta, rose striped on white. The color turns pure magenta with age.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Senator—Standard maroon and violet, wings violet and indigo, both striped on white.
er Majesty—Bright rose crimson. Large size, hooded form. Very vigorous.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
iss Hunt—Standard, scarlet crimson. Wings, crimson. Pink showing views of deeper crimson.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Shahzada—Beautiful rich flowers. Standards, deep maroon; wings, indigo blue.
Prince Edward of York—Bright scarlet and crimson.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
<b>SCARLET AND CRIMSON</b>		
ueen of the Isles—White ground, distinctly striped and splashed with carmine and bright scarlet.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Stanley—A beautiful, self-colored flower of deep maroon.
ted and White Striped—Large flowers of good substance.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c		Waverly—Pure purple.
plendor—A large, finely-shaped flower; color coppery crimson suffused with rose.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c
Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c		Eckford's Hybrids Mixed—This mixture is made up of Eckford's large flowering sorts.
<b>BLUE AND PURPLE</b>		
lack—Standards, deep maroon; wings deep blue, medium size; good substance, black seed.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Pkt., 5c; oz., 10c; 1/4 lb., 15c; lb., 40c
oreation—Dark maroon, self-colored.	Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c	Choice Mixed—A fine mixture of the best varieties, new and old.
Pkt., 5c; oz., 10c; 1/4 lb., 20c; lb., 50c		Pkt., 5c; oz., 10c; 1/4 lb., 15c; lb., 40c
<b>PINK</b>		
Pink Cupid—Plants very dwarf, and much more vigorous than White Cupid. The flowers are of the same color as those of Blanche Ferry, and somewhat larger.	Pkt., 5c; oz., 10c	Mammoth Package Mixed Sweet Peas—Many of the new sorts are in this mixture. The colors are rightly proportioned to give the most brilliant show possible in the garden.
White Cupid—A genuine dwarf; plant only a few inches high; bloom of good form and substance, and pure white. Originated in California. Seeds white.	Pkt., 5c; oz., 10c	Pkt., 10c
Pink—A well-known, remarkably free-flowering plant, of brilliant colors, ranging from snow white to darkest crimson and purple. They emit a very delicate and refreshing fragrance. New plants should be raised from seed every year or two, as the old ones deteriorate. They are hardy, and the seed may be sown as soon as the ground can be prepared. They spread rapidly, and the roots can be divided. Hardy perennial.		SWEET WILLIAM
Single Mixed—Very beautiful .....	Pkt., 5c	(Dianthus Barbatus)
Double Mixed .....	Pkt., 10c	
<b>VERBENA</b>		
No plant surpasses the verbena as a bedding plant under our bright California sun. The colors are rich and distinct. A packet of our new hybrid seed will produce flowers of every shade and color known to the verbena. They spread		

## DESCRIPTIVE LIST OF CHOICE FLOWERS—Continued

rapidly and can be divided, and will set readily.	they are fully opened, and dried in the shade.
Half-hardy perennial trailer.	Thus treated and carefully kept, they will retain their beauty for years. Hardy annuals.
White <i>Niveni</i> —Sweet scented.....	Pkt., 5c
Scarlet <i>Defiance</i> —Very brilliant.....	Pkt., 10c
Montana—Hardy variety, producing brilliant rose and lilac flowers.....	Pkt., 5c
Fine Mixed—Brilliant colors .....	Pkt., 5c
<b>Hybrida</b> —Saved from one of the finest collections in the world.....	Pkt.. 15c

## WALL FLOWER

(Cheiranthus Cheri)

A well-known, half-hardy perennial, producing spikes of beautiful flowers. The petals are velvety, the color deep orange, shading to brown, rich and handsome. If taken in or protected, they will bloom all winter.

**Finest Double Mixed**.....Pkt., 10c

## WHITLAVIA

An attractive, hardy annual, with beautiful fine foliage, bearing profusely drooping clusters of bell-shaped flowers, mostly blue and white. Should have a shady place with abundant moisture.

**Mixed**.....Pkt., 5c

## WISTARIA

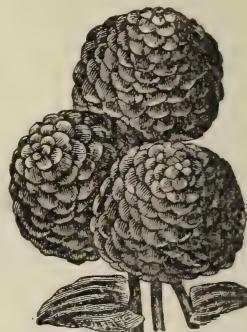
(Glycine Sinensis)

Rapid-growing, hardy, perennial climber, bearing long, drooping clusters of porcelain-blue flowers in abundance. Thrives best in a light, loose soil and a southern exposure. Often grows fifteen feet in a season.

Pkt., 20c

## XERANTHEMUM.

A free-flowering class of everlasting; useful for winter bouquets. The colors are purple, yellow and white. They should be gathered before



## ZINNIA

A large-flowering, branching annual, in bloom the latter part of the season. The flowers are as double as dahlias, which they resemble, and of almost as great a variety of rich colors and shades. The flowers are beautifully rounded on top and very symmetrical. They can be dried and will remain fresh in appearance and handsome for winter bouquets. Easily grown and transplanted, and remarkably showy for beds or as a low hedge. Half-hardy annuals.

**Double White**.....Pkt., 5c  
**Deep Orange Yellow**.....Pkt., 5c  
**Extra Double Mixed**.....Pkt., 5c

## Roses

All our Roses are grown on their own roots and are far superior to budded plants.

**Culture**—Remove all decayed branches and leaves and at least half the previous season's growth should be cut away early each spring. Spade around the roots plenty of well-rotted manure and give surface a liberal top dressing of bone dust.

## Red.

Liberty (H. S.)  
 Papa Gontier (H. T.)  
 Gen. Jacqueminot (H. P.)  
 Meteor (C.)  
 Reine Marie Henriette (C)  
 Prince Camille de Rohm (H. P.)  
 Gen. MacArthur (H. T.)  
 Gruss-au-Teplitz (H. T.)  
 Jubilee (H. P.)  
 Wooten (C.)  
 Philadelphia Rambler (C.)  
 Helen Gould (H. T.)  
 Urich Brumer (H. P.)  
 Richmond (H. T.)  
 Crimson Rambler (C.)

## Pink.

Bridesmaid (T.)  
 Killarney (H. T.)  
 Cecil Brunner (H. T.)  
 Malmaison (C.)  
 Mad. Caroline Testout (H. T.)  
 Paul Neron (H. P.)  
 Burbank (H. T.)  
 La France (H. T.)

Clio (H. P.)  
 Glorie de Dijon (C)  
 Magna Charta (H. P.)  
 Catherine Mermett (T.)  
 Maman Cochet (H. T.)  
 La France (C.)  
 Hermosa (T.)  
 Mrs. Mawley (T.)

## White.

Bride (T.)  
 Kaiserin Aug. Victoria (C.)  
 Cherokee (C.)  
 Lamarque (C.)  
 Kaiserin Aug. Victoria (H. T.)  
 Bessie Brown (H. T.)

## Yellow.

Gold of Opper (C.)  
 Marachal Neil (C.)  
 Maman Cochet (H. T.)  
 Croquette de Lyon (T.)  
 Sunset (T.)  
 Etoile de Lyon (T.)  
 Wm. Allen Richardson (C.)

**H. P.—Hybrid Perpetual**—These are the hardest of all roses; many will stand the coldest sections; vigorous in growth and easy of culture, producing large flowers, fine in form and fragrance.

**T.—Tea**—One of the best classes of roses and truly ever-blooming. Many of these are the most beautiful and sweetly scented; they are hardy in this section, frequently wintering without any protection, although during the coldest weather they should be protected with a covering of fir boughs, straw or burlap.

## ROSES—Continued

**H. T.—Hybrid Tea**—These, as a rule, are as free-flowering and as constant bloomers as the tea sorts. They are hardier than the teas, but, as a rule, not so hardy as the H. P.'s. Many of this class, however, are practically hardy and a few very hardy.

**C.—Climbers.**

## PRICES.

Choice, two-year-old stock, 35c each, 6 for \$1.75; 12 for \$3.00.

Selected, three-year-old stock, 50c each; 6 for \$2.50; 12 for \$4.00.

One-year-old, mailing size, 15c each, \$1.25 per dozen, postpaid, from April 1, 1907.

Parties who expect to buy roses by the hundred will do well to write us for Special Prices.

## NITRO-CULTURE

## NEW DISCOVERY

## DOUBLES YOUR CROPS

A new, sure and easy way has recently been discovered to make worn-out or poor land enormously productive with a little trouble and almost without expense. Plants need nitrogen and cannot grow without it. Heretofore fertilizers have been needed to put nitrogen into the soil. Nitrogen is very necessary—is the most expensive part of fertilizers. The new way is easier, surer, cheaper—it is to let nitrogen-gathering germs feed the plants.

The soil is full of air. Air is four-fifths free nitrogen. Think what limitless plant food, in the form of free nitrogen, the air contains. Right here the new discovery comes in. Plants cannot extract nitrogen from the air, but there are germs that can. These germs have been discovered and are now being used for that purpose. These germs, when put into the soil, fasten themselves to the roots of the plants, draw the free nitrogen out of the air, and feed it to the plants. That's the secret of the new way that is making many farmers rich. The germs do the work—the farmer gets the profit. They save expense, reduce the work, increase the crop enormously, even make it possible to grow Alfalfa and other crops where they never would grow before.

The new way saves the cost of nitrogenous fertilizers and is very easy to use. The germs come ready for use, in a form called Nitro-Culture, put up in small dry packages you can put in your vest pocket. Simply add it to water, and sprinkle the water over the seeds before planting. The germs remain on every seed—live with it—increase about it—feed the roots when they start and keep on feeding them. They also enrich the soil by storing nitrogen in it, so that the second year's crop, whatever it may be, is increased from two to ten times.

**NITRO-CULTURE** is especially prepared for the following crops: **Alfalfa or Lucerne, Red Clover, Alsike Clover, White Clover, Field Peas, Garden Peas, Sweet Peas, Garden Beans, Vetch.**

When ordering state what particular kind of crop you desire to inoculate, so that the proper bacteria may be forwarded.

## Price List:

Trial package,  $\frac{1}{8}$  to  $\frac{1}{4}$  acre, 50c; acre package, \$1.50; 5-acre package, \$5.00

We can also furnish 25c packages for Garden Peas and Beans and Sweet Peas.

Complete directions with each package.



# POULTRY SUPPLIES



All Persons Interested in Poultry Keeping Will Find Many Things of Great Value to Them in the Following Pages.

If it were not the fact it would seem incredible that even now the increasing populations of the Pacific Coast are largely dependent upon the Middle and Eastern States for their supply of poultry and eggs, but such is the cold, hard fact. With all our advantages of climate, it is an absurdity, and an anomalous reflection upon Pacific Coast enterprise, that we should in this twentieth century be paying freight charges on eggs and poultry raised for our tables in the severe climates beyond the Rockies. But the people of the Pacific Coast are at least awakening to the importance of the poultry industry. This means a demand for incubators, the old hen process being too slow to meet the demands of the general eagerness to make up for lost time. Of the makes of incubators there is no end and to choose the best from

among them all is a point of the utmost importance. Before deciding in favor of any one kind of incubator we examined the merits of many competing machines with the utmost care. The result was a decision in favor of the Cyphers as the most scientifically designed, the most carefully constructed, and in all respects the best and simplest incubator on the market. Having made this decision, our shipment of four carloads of Cyphers incubators and brooders five years ago was only a starter in this branch of business. We disposed of the original shipment long ago, and several successive shipments have followed since. Now that the Pacific Coast prices of the Cyphers incubators and brooders are practically reduced to the level of the Eastern factory prices, the demand for these goods must be greater than ever.

## THE CYPHERS NON-MOISTURE INCUBATORS

The Cyphers incubators, for which we are authorized agents, are **FULLY GUARANTEED** by the manufacturers, as follows:—

First—To require no supplied moisture.

Second—To be self-ventilating.

Third—To be self-regulating.

Fourth—To operate with less oil and at less expense than any other make of incubator.

Fifth—To be fire-proof, having the best, the safest, and the most costly built heater attached to any incubator.

Sixth—To be the easiest to operate and control, requiring less labor and attention than any other make of incubator.

Seventh—To produce larger and stronger chicks than any other make of incubator on the market.

Eighth—Also that, where they are run with any incubator of a different make, they will in three or more hatches bring out a larger percentage of the fertile eggs in good, healthy chicks or ducklings than does their competitor.

If you are in search of the latest-patented, most durably-built, and best practical incubator, one that will hatch the largest number of the strongest and healthiest chicks or ducklings, the Cyphers is that machine.

Who invented them?—The now famous Cyphers incubators, which were patented in 1894, first placed on the market during the season of 1896-97, and now extensively used on the largest poultry plants in America, were invented by Charles A. Cyphers, also inventor of the Mammoth 20,000-Egg Cyphers Incubators located on the duck farm of Wm. H. Truslow, at Stroudsburg, Pa. Mr. Cyphers has devoted the best years of his life to the study of artificial incubating and brooding, the results being a book on the subject entitled "Incubation and Its Natural Laws" (conceded to be the best scientific and practical treatise given to the public on this subject to date), the construction of the mammoth 20,000-egg Cyphers incubator at Stroudsburg, and the invention of the 60-egg, 120-egg, and 360-egg Cyphers incubators and the 3-compartment Cyphers brooders.

THE "DIFFUSIVE PRINCIPLE"—Mr. Cyphers is the discoverer and patentee of the "diffusive principle" in artificial incubation, a highly important matter, for it was by means of this discovery that he was enabled to render his greatest service to practical, successful incubation by artificial means, by solving "the moisture problem." Untold thousands of chicks were being reported "dead in the shell," and the moisture question was the rock on which the hopes of hundreds, yes, thousands, of poultry raisers were being wrecked. The Cyphers method and the Cyphers incubators

SOLVED THIS PROBLEM by introducing the diffusive principle and a self-ventilating system, which does away absolutely with supplied moisture, retaining in the machine the moisture contained in the eggs, which is ample for all purposes.

THE RESULT IS AN INCUBATOR THAT IS POSITIVELY SELF-REGULATING, SELF-VENTILATING, AND WHICH REQUIRES NO SUPPLIED MOISTURE. Here we have, therefore, the simplest possible incubator, one that is practically perfect in its ease of operation, as all that is required of the attendant is the filling of the lamp and turning the eggs. Today the Cyphers incubator, a practical embodiment of the CYPHERS METHOD, stands without an equal. Used by the largest and most successful poultry plants in this country, and by upwards of 15,000 small poultry raisers, it is pronounced by them to be WITHOUT A RIVAL.

NON-MOISTURE INCUBATORS—The Cyphers is the original and only genuine non-moisture incubator. All other so-called "non-moisture" machines are either imitations or, worse still, merely claim to require no supplied moisture, in order that those who manufacture them may reap some of the benefits arising from Mr. Cyphers' great discovery and invention. The Cyphers incubators are today the only machines that are or can be lawfully equipped with the Cyphers patent felt diaphragms, thus employing the diffusive system of ventilation, which does away entirely with supplied moisture.

Several manufacturers of incubators have been forced to adopt various substitutes for Mr. Cyphers' invention, while still others have not altered their old-style machines in any material point, but now boldly claim that they require no moisture pans, wet sponges, or supplied moisture in any form, thus defrauding the public, in order to sell their old-style, out-of-date incubators to persons not well informed. FOR POSITIVE and ABUNDANT PROOF that the Cyphers is the original and only genuine non-moisture incubator, and that, by solving "the moisture problem," Mr. Cyphers did artificial incubation and the poultry industry of America, a very great service, read the hundreds of testimonials in Cyphers Company's Complete Catalogue for 1907.

BUILT FOR BUSINESS. The Cyphers incubators and brooders are built for business. That is the idea. There is nothing fancy, nothing foolish, about them. They are not parlor ornaments. That is not what incubators are wanted for. Men and women of experience in the poultry business understand that it is at best a particular matter to hatch and raise large numbers of strong,

## POULTRY SUPPLIES—Continued

healthy chicks by artificial means. Mr. Cyphers and the Cyphers Incubator Company fully realize this, and therefore they turn out the best goods they know how to produce, at the same time not wasting a cent on fancy trimmings, but striving to manufacture incubators and brooders that are exactly adapted to the work. Every Cyphers incubator or brooder is built in a workmanlike manner, out of the best materials on the market, and is slightly in appearance. While there is nothing fancy about them, no critic can place his hand anywhere on a Cyphers incubator or brooder and truthfully say, "This is inadequate; this is too cheap." In other words, every cent is spent on the Cyphers goods THAT IS NECESSARY, but not a penny more. The result is that the Cyphers, capacity, quality of material, and workmanship considered, are sold at reasonable prices, and the purchaser gets full value, GETS WHAT HE WANTS,—a practical incubator, and one that will last a lifetime with reasonable care.

ONE STYLE ONLY—The Cyphers incubators and brooders are manufactured in one style only, viz., THE BEST. The Cyphers Company, has no "second best." The best incubator that can be made is what the sensible poultryman wants, and nothing less than this. An extra \$5.00 or \$10.00 put into the "best incubator" will earn itself the first hatch, and the difference in every hatch thereafter will be clear profit, as between a poor incubator and the best that an up-to-date company can manufacture. Purchasers of incubators should reflect on these facts, and be governed accordingly. The poultry business is not boy's play. For earnest people it is the means to a livelihood. There is money in poultry for sensible people, for men and women who are governed by reason. For those who unfortunately follow cheap prices there is little hope in the poultry business. Cheap prices invariably mean cheap goods.

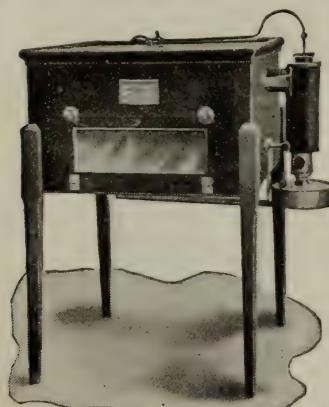
### The Standard CYPHERS Incubators, 1907 Pattern



1907 Pattern Standard Cyphers.

### Cyphers New Low-Priced Incubators

These incubators are well built and practical machines and will under ordinarily favorable conditions hatch a good percentage of eggs entrusted to them.



Farm Economy. Capacity, 110 eggs. Price... \$13.50  
Boy's Choice. Capacity, 50 eggs. Price.... \$8 .50

The Standard CYPHERS Incubators, 1907 Pattern, embody several new and important improvements which, while they do not in any way affect the working principle of the machine, add greatly to the ease of operation and to its durability.

We sell the genuine Cyphers Incubators at the following prices:

No. 0. 66 Egg .....	\$15.00
No. 1 140 Egg .....	22.00
No. 2 240 Egg .....	32.00
No. 3 390 Egg .....	38.00

These machines are sold under a positive guarantee.



### Storm King Brooder

Recognizing the widespread demand for a thoroughly well-made, practical brooder that can be sold at a lower price than our Standard "A" Brooder, we have devised and perfected the Storm King Brooder. This is a combined brooder and colony coop, manufactured in one size; has a floor space 34x34 inches, and is 75-chick capacity. The heating principle employed in the Storm King is the same as in the Style "A" Brooder, but adapted to meet the special requirements of this style of brooder. The entire floor space of this brooder, together with the lamp slide and other working parts, may be removed and roosts inserted, thus making a well-lighted, well-ventilated colony roosting coop.

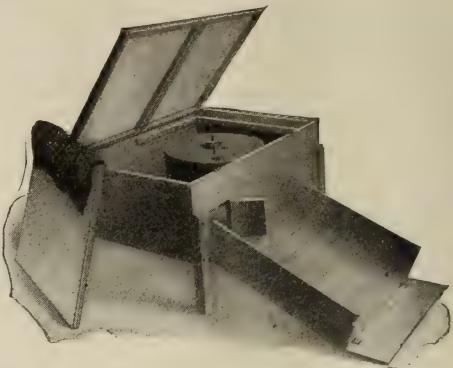
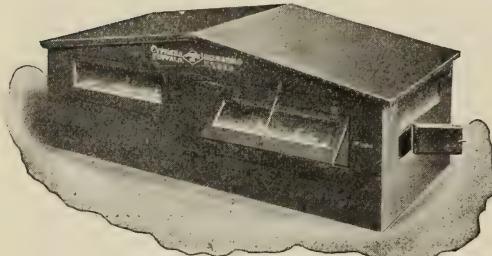
Prices, complete, with thermometer and lamp ..... \$10.50

## POULTRY SUPPLIES—Continued

**Cyphers Hygeinic Brooder**

We offer this brooder with the opinion that it is the best device in the form of an individual indoor brooder thus far conceived and invented for the safe and healthful rearing of chicks. It is composed of three compartments, allowing the chicks to seek whatever temperature suits them best. The improved heating system is similar to that employed in the Storm King Brooders; the very best for the purpose.

Price, complete with thermometer and lamp \$9.50

**Cyphers Style A Three Compartment Brooder****Cyphers Style A, Outdoor Brooder, Rear View**

Next to its incubator, the Cyphers Company especially prides itself on the three-compartment outdoor brooder which it manufactures. We unhesitatingly pronounce this to be the best brooding device on the market, for EITHER INDOOR OR OUTDOOR USE, regardless of price, and it will be noted that all of the Cyphers brooders (the company manufactures one grade only, but four sizes), are sold at very reasonable figures.

LET US ENUMERATE SEPARATELY THE SPECIAL MERITS OF THIS BROODER.

First—It is the largest single-flock brooder ever placed on the market.

Second—It is rain-proof and storm-proof, having a heavy, canvas-covered roof over both the chick chamber and the feeding compartment or run.

Third—It is fire-proof, a Cyphers safety brooder stove being used instead of a lamp, and the entire lower floor of the chick chamber being protected underneath by a solid sheet of galvanized iron, with an air space between it and the wooden floor.

Fourth—A brass cold-water pan is used on the Cyphers safety brooder stove, located between the flame and the oil bowl. Cold water placed in this pan keeps the wick from charring and the flame from smoking, thus rendering the stove and brooder perfectly safe, also insuring a uniform heat.

Fifth—The fumes from the brooder stove can not pass into the chick chamber (into either apartment), but are carried out at the sides of the brooder by an ingenious and infallible device.

Sixth—The surplus brooder stove heat preserves all the lower woodwork of the brooder by warming and drying the soil underneath the brooder, thus making the brooder not only safer and more comfortable for the chicks, but also more lasting.

Seventh—The brooder stove is easy of access, being aboveground, and the sliding board not only brings it quickly within reach, but replaces it in exactly the right location.

Eighth—When the temperature underneath the chick cover is at 90 to 95 degrees, we have a surrounding atmosphere of 80 to 85 degrees, while in the front compartment the temperature will average about 70 degrees. The chicks, therefore, may suit themselves, going to and from the heat at will. (See illustration.)

Ninth—The round chick guard prevents any crowding of the chicks, and also prevents their coming in contact with the circular heat dome, to their injury.

Tenth—In the night compartment of this brooder there are no stairs to climb, hence no danger of the little chicks getting lost and becoming chilled while learning the way.

Eleventh—It is the most durable and the best-made brooder on the market, regardless of price. Both the chick chamber and front run may be reached through full-sized doors, and these doors or lids are covered with heavy tin, painted with two coats of mineral paint. We unhesitatingly recommend this brooder, both for outdoor and indoor use. It may be left out in rain-storms or wind-storms, and, with reasonable care, the chicks entrusted to it will be comfortable and do well. All chicks raised in brooders should be provided with outdoor runs, and be given necessary exercise, depending on the season and the weather. Many customers of the Cyphers Company have bought these unequalled outdoor brooders for use inside of poultry houses, brooder houses, etc., during midwinter, placing them out-of-doors, under trees or in the open, as soon as the early spring days came with their bright sunshine.

This is positively the best combined outdoor and indoor brooder in all particulars that the Cyphers Company knows how to build.

Capacity, 100 to 150 chicks; weight, 160 pounds.  
Price complete ..... \$15.50

**CYPHERS LICE PAINT.**

Quart cans, each.....	\$0.35
Half gallon cans, each.....	.60
Gallon cans, each.....	1.00

## POULTRY SUPPLIES—Continued

## Cyphers Chick Food, Laying Food, Etc.

Having made arrangements with Cyphers Incubator Co., we will handle nothing but their well known Poultry Food, which we buy by the carload and which we can offer at Coast prices. Send for samples of their Celebrated Chick Feed.

Cyphers Chick Feed, per lb., 5 cents; in 100-lb. sealed bags, per 100 lbs..... \$3.50

Cyphers Forcing Food, per lb., 3 cents; in 100-lb. sealed bags, per 100 lbs..... 2.50

Cyphers Laying Food, per lb., 3 cents; in 100-lb. sealed bags, per 100 lbs..... 2.50

Cyphers Scratching Food, per lb., 3 cents; in 100-lb. sealed bags, per 100 lbs..... 2.25

Cyphers Shreded Alfalfa Meal, per lb., 5 cents; per 100 lbs..... 3.00

Cyphers Nodi Charcoal, in 2-lb. cartons, 15 cents each; in 50-lb. bags, each..... 2.00

Comes in three sizes.

## Cyphers Full Nest-Egg Food



42 ounce package, each..... \$0.30

25 pound pail, each..... 2.50

## Cyphers Lice Powder



5 ounce package, each ..... \$0.10

15 ounce package, each ..... .25

48 ounce package, each ..... .50

100 ounce package, each ..... 1.00

## The Cyphers Safety Brooder Stoves

These stoves positively have no equals. We have them manufactured in lots of three thousand, hence can offer them at very low prices, quality and weight of materials considered. No other



brooder stove on the market has as large a water-jacket or holds as much oil. The water-jacket on the Cyphers Safety Brooder stove holds fully a quart of water, and extends out over the entire surface of the oil bowl, thus placing a sheet of cold water an inch to an inch and a half in thickness between the oil bowl and the flame jets. By this arrangement all danger of the generation of explosive gases, arising from the top of the lamp or the burner becoming heated, is removed, and we have a brooder stove that can be relied on. We sell hundreds of these stoves each year to persons who wish to build home-made brooders. We strongly advise against anybody using a common lamp in a brooder. The Cyphers Brooder Stove furnishes twice the heat of an ordinary brooder lamp, and lamps are far from being safe. Cheap lamps are equipped with cheap burners, which gum up, smoke, and thus endanger the chicks.

These stoves are used in all the Cyphers brooders.

Price each, \$1.50.

## Cyphers Drinking Fountains



The Cyphers Galvanized Iron Drining Fountains embody every good feature of a down-to-date drinking fountain, and are believed to be the best in use. They have done much to supplant the old-style earthenware fountains, which could not be thoroughly cleaned and purified. A foun-

## POULTRY SUPPLIES—Continued

tain that cannot be easily and readily cleaned out, and in which water soon becomes sour, is highly objectionable. A fountain that will burst if the water in it freezes is also an annoyance and a source of loss. The fountains shown herewith are easily filled, easily cleaned, and kept clean. The interior of these fountains can, after being scalded, be exposed to the sun, and thus sweetened and kept wholesome. If placed in the shade in summertime, the water will keep very nearly as cool as in an earthen vessel. They are much lighter than the earthenware fountains, and a dozen can be put in a compact and cheap package for shipment.

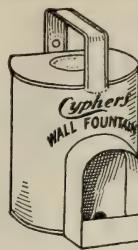
## PRICES.

Small, each, 25c

Medium, each, 40c

Large, each, 50c

## CYPHERS' WALL FOUNTAINS.



These fountains are something new and extra serviceable in the way of poultry fountains. One side of the back is flattened so that it can be hung on the wall of a building, or against an upright post or board at any height. A galvanized-iron hood projects over the water trough and protects the water from becoming soiled.

These fountains are made of the best galvanized iron and guaranteed to last many years with proper treatment. We recommend them as first class in every particular. They are made in two sizes.

## Prices of Cyphers Wall Fountains

1-Gal. size, each .....	\$0.75
2-Gal. size, each .....	1.00

## Cyphers Food and Water Holders

Patented

This undoubtedly is the best device of the kind on the market. They are made in one, two, and three gallon sizes, and are recommended both as food and water dishes. The tops and bottoms of these holders are separable by placing the palm of the hand on top of the upright post, slipping the fingers under the iron brace that is fastened to the upper metal pan, then pressing downward, causing the wires to separate, thus releasing the lower pan.

These wires prevent the chicks or fowls from getting into the pans and soiling the food or water.

Where these holders are used, a saving of 15 to 25 per cent may be counted on in the soft food used. Where food of this kind is thrown on the ground or upon boards, there is considerable waste, and this waste should be avoided. It is clear loss, and every bit of it comes directly out of the profits.

Prices: 1-gal. size, 75c; 2-gal., \$1.00; 3-gal., \$1.25.



Cyphers Dry-Food Hopper is a practical labor and food-saving device for feeding dry grain food, either whole or ground. Its use reduces the amount of labor on the poultry farm to a minimum. These hoppers are well made of heavy galvanized iron, are practically indestructible and will last a lifetime with ordinary usage.

Price of Cyphers Dry-Food Hopper, \$1.00.

## High Protein Beef Scraps

The Standard Meat Food For Poultry of all Ages.

Prices, per pound ..... \$0.05  
50 pound sack for ..... 2.00

100 pound sack for ..... 3.50

## International Poultry and Stock Food

25c and 50c per Package. Pails, \$3.50 Each.

## CYPHERS' WALL FOUNTAINS.

These fountains are something new and extra serviceable in the way of poultry fountains. One side of the back is flattened so that it can be hung on the wall of a building, or against an upright post or board at any height. A galvanized-iron hood projects over the water trough and protects the water from becoming soiled.

These fountains are made of the best galvanized iron and guaranteed to last many years with proper treatment. We recommend them as first class in every particular. They are made in two sizes.

## Prices of Cyphers Wall Fountains

1-Gal. size, each .....	\$0.75
2-Gal. size, each .....	1.00



## Cyphers Grit and Shell Box

Necessary on every well-organized Poultry Plant

Cyphers Sanitary Grit and Shell Boxes work a material saving in grit, oyster shell, ground bone, charcoal or poultry foods. They are thoroughly practical self-feeding boxes, well made out of heavy galvanized iron and are practically indestructible. This style of box is made with three compartments—for grit, oyster shell and charcoal—but where a small flock is kept may be made to serve the purpose of a dry-food hopper.

Price of Cyphers Sanitary Grit and Shell Box, each 75c.



## Dairy Association Co's

Kow Kure, at 50c and \$1.00 per can.

Garges Cure, at 50c per package.

Horse Comfort, at 25c and 50 per package.

Bag Balm, at 50c per package.

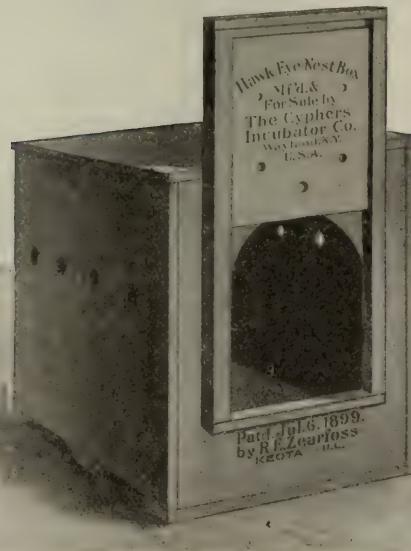
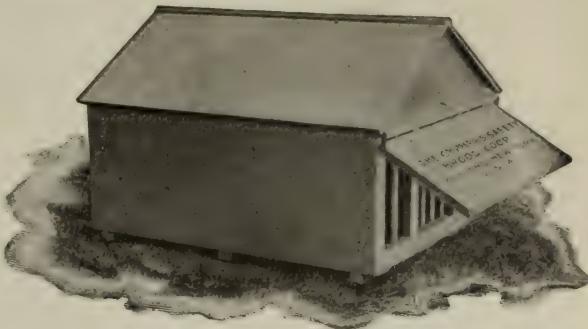
## POULTRY SUPPLIES—Continued

**The Safety Brood Coop**

Hundreds of people, women especially, are so situated that they can not build for themselves or have built, except at unreasonable cost, safety brood coops for hens with chicks. To meet this demand, Mr. Cyphers has devised the Cyphers Safety Brood Coop, illustrated herewith. These coops are well made in every respect, light and handy to move around, and, when closed for the night, are safe against varmints of various kinds. They also have a detachable floor, which makes it very convenient to clean out. In dry weather the floor may be left off, and the old hen can be on the ground.

These coops are 20x30 in size.

Price, \$3.00.

**Pedigree Nest Box**

This patented nest box has no superior. It is neatly and durably made, is infallible in action, and will tell every time "which hen laid the egg." There are two classes of poultry men who should use these boxes intelligently and persistently: First, the breeder of fancy or exhibition poultry, who is deeply interested in knowing which hen and which mating produce stock of the highest quality; second, the poultry keeper who wishes to increase the egg yield of his flock. In every flock of fowls there are good layers, medium layers, and poor layers. There is one sure way to develop a great egg-laying strain, and that is by finding out positively which are the best layers in the flock, and using eggs for hatching only from these best layers. The nest box shown herewith is believed by us to be the simplest and most accurate, therefore the best device on the market.

Price, \$1.75.

**Ovinaphthol Nest Eggs**

LICE DESTROYER AND NEST EGG COMBINED.

Prices: Each, 10c; per dozen, 90c.

**Spring Lever Poultry Punch**

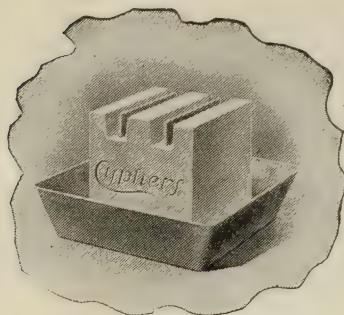
If you keep a record of your chicks of the different breeds, hatches, strains, etc., there is no better, quicker, or easier way than by using the RELIABLE SPRING LEVER POULTRY PUNCH for marking the web between the toes. Hundreds of private marks can be made when your chickens are hatched, and a record kept, so that they can

flock together until maturity, and then be separated by these marks.

Price, post-paid, 35c each.



## POULTRY SUPPLIES--Continued

Cyphers Pure Sulphur  
Fumigating Candles

**Prices of Candles**—Complete with tin dish, each 15c; if postpaid 25c.

## Extra Parts and Supplies for Incubators and Brooders

## CYPHERS INCUBATOR TRAYS

No. 0, 60c; No. 1, \$1.00; No. 2, per pair, \$1.50; No. 3, per pair, \$1.75.

## INCUBATOR LAMP BURNERS.

Large size, 80 cents each by mail.  
Small size, 60 cents each by mail.

## CYPHERS INCUBATOR LAMPS

(Seamless Bottoms)

Large size, with burner and wick all complete, for use on Nos. 1, 2 and 3 Incubators, \$1.25 each. Small size, all complete, for use on No. 0 Incubator, \$1.00 each.

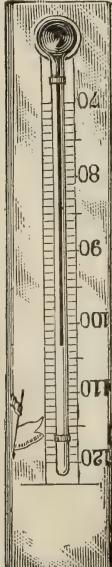
## LAMP WICKS.

For incubator lamps, 30 cents per dozen by mail.

For brooder stoves, 30 cents per dozen by mail.

New Cyphers Fire-Proof Heater, for any size Incubator, \$3.50 each.

New Felt Diaphragms, for No. 0 or No. 1, 75c; No. 2 or 3, \$1.00 each.



Cyphers  
Brooder  
Thermometer

## HIGH GRADE TESTED THERMOMETERS

The best incubators and brooders manufactured are worthless unless the thermometers therein are correct. Hatchets fail in incubators because of inferior thermometers, and large numbers of chickens are lost in brooders, owing to defective or worthless thermometers. The operator must know accurately the temperature in the egg chamber, and be sure that the chicks in brooder have the proper amount of heat. The thermometers here listed are guaranteed by the manufacturers to be thoroughly and expertly tested before they are offered to the public.

	PRICE.
Incubator Thermometer, without wire.....	75c
Hangs from the top of egg chamber so it touches the eggs.	
Brooder Thermometer, unmounted .....	60c



Cyphers Incubator Thermometer.

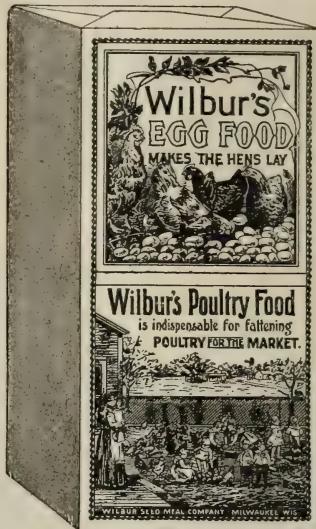
## CAPONIZING INSTRUMENTS

Poultry men, farmers included, can double their poultry profits by caponizing the surplus cockerels. The operation is simple, the instructions, sent free being so full and explicit that any man or woman, after a careful reading, will be able to perform it. Caponizing is highly successful in every point of view. The demand for capons East and West regularly exceeds the supply, the price per pound averaging more than twice as much as that paid for ordinary roosters. The object of caponizing is to increase the weight of the fowl, and to render the flesh far more tender and palatable.

Pilling's Caponizing Outfit, complete, in fancy case, with instructions, \$3.00, mailed free.

## METALLIC PARTS FOR CYPHERS BROODERS.

These can be purchased separately where the customer wishes to do his own wood work. One brooder, however, will need to be ordered for pattern, as we do not furnish plans. Complete outfit for Style B, Indoor or Style A, Outdoor, \$7.00.

Wilbur's Egg and Poultry Food  
Wilbur's Seed Meal Stock Foods

The old and reliable preparation.  
Package, 25c and 50c each.

## Pratt's Poultry Food

26 oz. package for 25c.  
5 lb. package for 60c.

## Pratt's Animal Regulator

Package, 25c, 50c, 75c and \$1.00.

## POULTRY SUPPLIES—Continued

## CYPHERS PEDIGREE TRAYS.

To be used in place of regular trays when one wants to keep separate the chicks from certain eggs. (See Cyphers Catalogue.) Prices, for No. 0, \$1.50. No. 1, \$2.00; No. 2, \$3.50 pair; No. 3, \$4.50 pair.

## A SELF-OPERATING or AUTOMATIC SPRAYER.



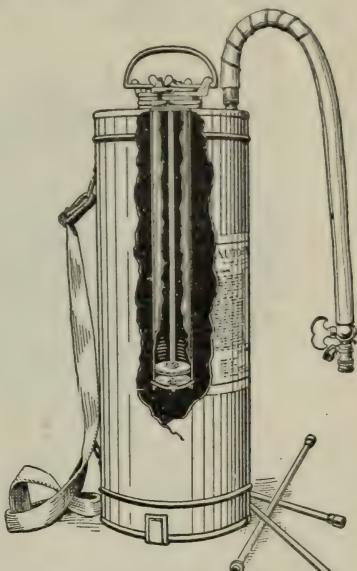
Auto-Spray at Work with Extension Pipe for Tall Trees.

As a sprinkler for plants and flowers.

For sprinkling floors, taking the place of wet sawdust or the common sprinkler.

Make note of the simplicity of construction. See the plunger rod, the patent fastener at the top,

the valves; they all can be taken apart in a few seconds, without the use of a tool of any kind. The working parts are all brass; can not get out of order. There is no slopping or waste of spray; it is air and water tight. You can spray with your good clothes on.



Auto-Spray Showing Working Parts.

## PRICE OF AUTO-SPRAY.

**Galvanized Steel**, all working parts brass, with 2-foot, 3-ply rubber hose, stop-cock, 1 fine, 1 coarse and 1 solid stream nozzle, and shoulder strap, \$5.50.

**Brass Tank**, with same parts as described above; price, \$8.50.

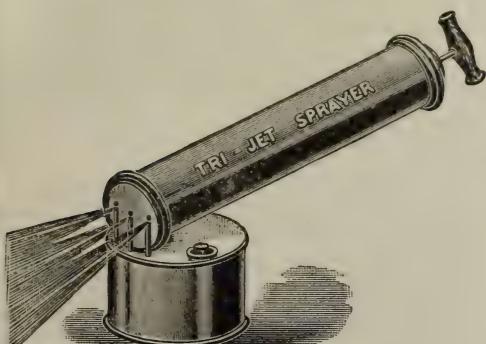
**Size**.—The above sprayers are 2 feet long and 7 inches in diameter; weight, empty, 7 pounds. Capacity, about 4 gallons.

## EXTENSION PIPES.



For spraying tall trees, we furnish extension piping in 24-inch lengths, each fitted with brass couplings. Two or three lengths are generally used.

Galvanized, 30c.



## New Era Tri-Jet Sprayer

Tin; price, 75c.

For spraying vines, shrubs, plants and cattle (to keep off flies), and the interior of henneries, will save the price of the sprayer in a single day's use.

This sprayer embodies the principle of the ordinary atomized, and is new only in the application of same to a new use. The advantages are at once apparent to the user. It is the most economical, not only because of its low price, but because of its great saving of material. The saving in one day's use of spray will pay the first cost of the sprayer.

One quart of liquid in this atomizer will cover more effectively a larger surface than ten quarts in the common sprayer or sprinkler. It is a great saving in labor, because, when loaded, it weighs much less than any other, and because the spray is easily made to reach six feet from the operator. A careful comparison of the New Era Tri-Jet

## POULTRY SUPPLIES—Continued

Sprayer, point by point, with other hand sprayers, is all that is needed to convince a man that it is "the best hand sprayer made."

**Why the New Era Sprayer is better than others of similar construction:—**

1. Because the reservoir is galvanized iron, and will not corrode or rust.

2. Because the feeding tubes are zinc, and will not corrode or rust.

3. Because the plunger is backed and reinforced by wood (not metal).

4. Because it has three openings and three times the capacity of the ordinary single-jet sprayer.

5. Because the sprayer is larger, and will spray further.

## SULPHATED ROUP SPECIFIC.

### THE GREAT GERMICIDE FOR DIPHTHERITIC ROUP GERMS.

Cures Quicker Than the  
Common Kinds

### SEATOL SULPHATED ROUP SPECIFIC

#### The Great Germicide.

This specific not only cures roup in its worst form, but eradicates all the poisonous impurities from the system.

Should your fowls have cholera, cure them by using the specific same as for roup. When in need of a roup or canker cure, buy the best,—buy Sulphated Roup Specific.

**Put up in 50c packages; by mail, 60c.** Easy to use; simply put in drinking water.

### Lambert's Death to Lice Remedies

#### POWDER.



For body lice on sitting hens, laying or exhibition poultry. It does not injure eggs or chickens, or soil the plumage in any way. It is also invaluable for lice on horses, cattle or plants, ticks on sheep, moths in carpets or furs, fleas and lice on dogs, cats and pets. Also a valuable disinfectant. Price, 5-oz. box, 10c; 15-oz., 25c; 48-oz., 50c; 100-oz., \$1.00.

#### OINTMENT.

For lice on chickens. Scaly shanks on fowls. 10c and 25c per box, post-paid.

#### SPECIAL.

In powder form for dissolving in kerosene as a liquid louse killer, or to add to whitewash for mites and spider lice. 4-oz. box, 10c; 16-oz., 25c.

**If Powder or Special is to be sent by mail, 1c per ounce must be added for postage.**

## SEATTLE FLY KNOCKER

#### Guaranteed

Fly Knocker instantly drives away flies, mosquitoes, and insects from any animal sprayed with the magic liquid.

Cows feed quietly all day, and give one-third more milk.

Stock cattle will fatten better, and larger profits are realized.

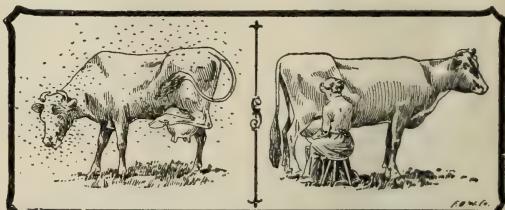
Horses will work easier and rest quieter, being absolutely free from annoyance, for no insect will go near where Fly Knocker is used.

Will also prevent the gadfly from striking sheep and causing "grub in the head."

To protect animals from flies and mosquitoes, apply once or twice a day lightly over the animal with a sprayer, giving special attention to the legs, head and sides. It is better to give a light application frequently than a heavier coating at long intervals.

The feed saved will more than pay the cost of the remedy, and you do not have to wait until after dark to milk your cows.

By the use of Fly Knocker your cow will give one-third more milk; your horse will rest during rest time and work during working hours on two-thirds the feed it now requires, and will be free from vermin of all kinds.



Which cow would you rather milk?

#### NO USE MILKING COWS AFTER DARK. PRICES.

Half-gallon cans	.....	\$0.75
One-gallon cans	.....	1.25
Five-gallon cans	.....	5.00

It costs about 1/2c per day per animal to use.

**To apply Fly Knocker economically, use our New Era Sprayer. (See page 47.)**

**ODORLESS FERTILIZER** for house plants, per lb., 10c; by mail, post-paid, 20c per lb.

For other fertilizers for flower borders, lawns, garden and farm use, write for prices, stating kinds (or purpose) and quantities required.

Guaranteed to do the work, or money refunded.

## POULTRY SUPPLIES—Continued

## Bond's Grit Machine

The best Grit Crusher manufactured. A machine that will crush enough in a few minutes to last a hundred head of fowls a month. It is so simple that any child can use it. It works with a lever power and takes very little work to run it.

You can crush granite, oyster and clam shells and crockery. After you have purchased one you will wonder how you did without it so long. The sight of the machine sells it. One customer invariably brings another.

**The Price is Only \$4.00**

## MANN'S GREEN BONE CUTTERS

If you want an old reliable machine—one that has established a reputation in the yards of practical poultrymen—buy a Mann's.

If you want a new machine—one that has every late improvement, one that is really "ahead of the times"—buy a Mann's. It does the work with the greatest ease. It makes every hen a paying hen. Try it and see.

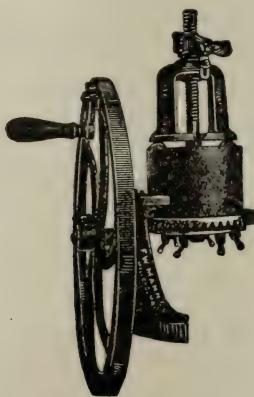
The Mann's is the only machine which has a self-governing feed, which produces a uniform pressure against the knife, whether the bone be hard or soft. You set the machine to suit your strength, and it never requires more power than you set it for.

The Mann's cuts any bone and all adhering meat or gristle, and never clogs or stalls.

The Mann's is, in short, an ideal bone cutter. **We believe that it is a better machine, all points considered, than that produced by any other manufacturer.**

Try one for yourself, and if you are not satisfied you can have your money back. Could you ask more?

afford to pay the price of the No. 11 or No. 12. The No. 7½ will appeal directly to this class. It has all the improvements. It meets a long-felt want.



**MANN'S NO. 5.**

Has four knives, large cylinder, and has the latest patent, automatic, governing spring feed, which makes it one of the best, low-priced bone cutters ever offered. Can furnish with crank, balance wheel, or mounted on iron stand.

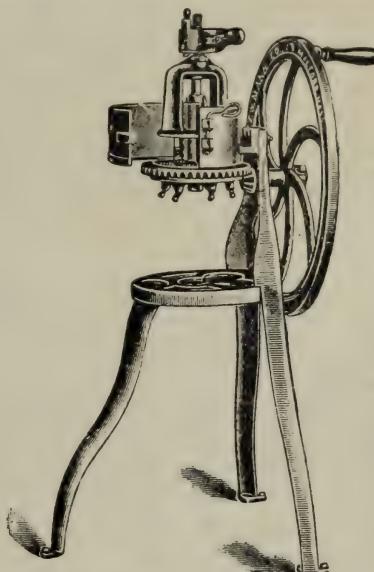
**MANN'S NO. 7.**

The New No. 7 is mounted on strong iron stand, and has patent automatic governing spring feed. Large, open-hinged cylinder, giving instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements.

**MANN'S NO. 7½.**

**Adapted to run either by hand or by power, without any change.**

The particular advantage of the No. 7½ is that while it is a complete power machine, it can be operated by hand just as easily as the No. 7. Thus, it is always ready for use. It is recommended even if you have no power at present, for should you get power in the near future, you need be at no further expense. There is a large class that need a power bone cutter, who cannot really



**MANN'S NO. 7**

**MANN'S NO. 9.**

The description of No. 7 will apply to the New No. 9. The difference consists of larger cylinder, greater holding capacity, different design and larger table.

**MANN'S NO. 11—HAND OR POWER.**

Intended for large flocks when the machine must be run by hand a portion of the time. It is really a semi-power and semi-hand or combination machine, and as such has its place. The No. 11 is exactly the same as No. 9 with the power parts added. It has all the late improvements, special feed, anti-clog, open cylinder, tight and loose pulleys, etc. Capacity, 100 lbs. per hour.

**NO. 12, POWER.**

This machine deserves more than passing notice. It costs but \$4.00 more than the semi-power, or No. 11, yet is heavier, stronger, better and far more durable. It is strictly a power machine, and full of business from top to toe. Remarkable for strength, capacity, simplicity, economy and convenience. It has all the new patented improvements. In addition, this cutter has a grab clutch, an important and novel device by which it can be started and stopped instantly. No slipping of belts. The balance wheel runs all the time with the pulley, consequently the clutch operates instantly. Capacity, 120 to 150 pounds per hour. Horse power required, 1 to 2. Just the machine for marketmen, extensive breeders, or any one who has large quantities of bone to cut.

## POULTRY SUPPLIES—Continued

## PRICE LIST OF MANN BONE CUTTERS

New Styles.	Price.	Weight.	No. 7½ (hand or power).....	21.00	150
No. 5 C (with crank handle).....	\$ 7.75	30	No. 9 (B. W. and iron stand).....	22.00	163
No. 5 B (with balance wheel)....	\$10.00	55	No. 11 (power machine).....	30.00	215
No. 5 B M (B. W. and iron stand).....	13.00	80	No. 12 (power machine).....	34.00	260
No. 7 (B. W. and iron stand)....	15.00	107	No. 15 (power machine).....	66.00	420
			No. 4 B (with balance wheel)....	12.00	75
			No. 4 B M (B. W. and iron stand).....	14.00	110

## LEG BANDS FOR POULTRY

We have examined and tried every band, and believe we list the three best kinds.

## THE SMITH SEALED LEG BANDS

The modern method of marking poultry is to use a band that, "when once on, is always on," as one customer puts it. These bands, though only introduced last season, are attracting more attention than anything in the line of markers yet offered the poultry fraternity.

Our bands are made of aluminum, and so constructed that by simply crushing a soft rivit they are sealed on the bird's leg, and must be destroyed to be removed. Birds placed on exhibition, bought or sold under score cards, should always wear the SMITH SEALED BAND, as they are a positive guarantee that the band and bird wearing it are the identical specimens that the judge handled when he signed the score card or awarded a prize. Just look back over your old score cards, and see if you ever bought or sold a specimen that could be identified from the card and band it wore.

When a bird wins a prize, or is scored and offered for sale, under score or award card, the only way buyers can be sure they get what the card calls for is to insist on having them wear a Smith's Sealed Band, as we make no duplicate bands.

Be sure to remember that our sealed bands are numbered in lettered series of A1 to A10,000, B1 to B10,000, etc., and we only number bands to order when we make them with name, name and address, or initials on, and then do not duplicate former orders, but keep a record of each order, and, when they conflict, either give higher numbers or a serial letter.

In ordering it is best to give breeds and the number wanted for male and females. The bands are made in six sizes, and fit ordinary fowls, as follows:

No. 1—Bantams and small Mediterranean. No. 2—Mediterranean females. No. 3—American females and Mediterranean males. No. 4—American males, medium Asiatic females, and hen turkeys. No. 5—Large Asiatics and ordinary tom turkeys. No. 6—Extra large turkey toms and very heavy feathered Asiatics.

## PRICES BY MAIL OR EXPRESS PREPAID.

10 for 25c; 25 for 50c; 60 for \$1.00; 100 for \$1.50.

## ECLIPSE LEG BANDS.

Require no tool to seal them on.

This new band is an ingenious one. You simply pass it around the bird's leg, and, by pressing the two ends together, lock it. The automatic lock is under the number, and it is impossible for it to come off. These bands are made of aluminum, and are light, strong, neat, durable and perfectly smooth on the inside, making it impossible to injure the bird's leg. Order by number or class, the same as the above bands.

Prices, by mail, post-paid: 12 for 25 cents; 25 for 50 cents; 60 for \$1.00; 100 for \$1.50.

## CLIMAX LEG BANDS.

These leg bands are nothing new. They are standard leg bands that have been manufactured for years, and have the indorsement of many of the foremost poultry raisers in the country. They are neat, light, durable, secure, and are guaranteed to stay on when once placed on the fowl's leg. They are easily put on or removed. AND NO TOOLS ARE REQUIRED. The rings are made of steel or brass, and are so bent that the tag acts as a clasp, holding them securely in place. We have them in several different sizes for different breeds. Please order as follows, according to your wants: No. 1, for Bantams; No. 2, for Mediterranean females; No. 3, for Mediterranean males and American females; Nos. 4 and 5, for American males and Asiatic females; No. 6, for Asiatic males and turkeys. THEY ARE NOT MADE FOR PIGEONS. Numbers run from 1 to 100, from 100 to 200, and so forth up to 1,000.

## PRICES OF CLIMAX LEG BANDS.

12 for 25c; 25 for 40c; 50 for 75c; 100 for \$1.35.  
Post-paid.

## HEXAGON POULTRY NETTING

For poultry and Ornamental Fencing, Chicken Runs, Pigeon Lofts, Aviaries, Guards for Windows, Trellises, Etc.

No. 20 wire. In rolls 150 feet long, in the following widths:

	1 in. Mesh.	2 in. Mesh.
18 inch .....	\$3.75 per roll	\$2.00 per roll
24 inch .....	4.50 per roll	2.10 per roll

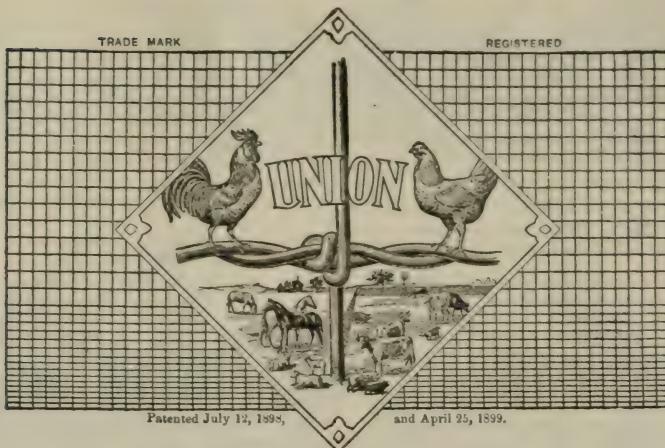
36 inch .....	\$6.50 per roll	\$2.85 per roll
48 inch .....	8.50 per roll	3.50 per roll
60 inch .....		4.25 per roll
72 inch .....		5.00 per roll

Short lengths, 2-inch mesh, 1c square foot; 1½-inch mesh, 1¼c square foot; 1-inch mesh, 2½c square foot.

Prices subject to change without notice.

## POULTRY SUPPLIES—Continued

## UNION LOCK POULTRY FENCE



The horizontal lines of this fence are composed of two No. 20 galvanized steel wires twisted together. Beginning at the bottom the first seven cables are  $1\frac{1}{4}$  inches apart, the next three cables are  $1\frac{1}{2}$  inches apart, then six cables 2 inches apart, and all above that 4 inches apart. This gives a mesh of  $1\frac{1}{4} \times 3$  inches at the bottom, where it is needed for small chicks; and above 2 feet, where fowls can only reach when on the wing, the mesh is  $3 \times 4$  inches. The pickets are No. 19 galvanized steel wires, and are 3 inches apart. The picket is fastened to the cables with the Union Lock, the same as we use in our Field and Hog Fencing, which has given such excellent satisfaction.

On account of the picket being at right angles

to the cables, the fence will fit any unevenness of the ground without cutting, which is an advantage not possessed by any diamond mesh netting or diagonal mesh fencing.

As all the cables are the same length and run the whole length of the fabric, every part can be stretched perfectly. The fence is amply strong, as the breaking strain of a No. 20 two-wire cable is 192 pounds, and there are ten cables in the first foot of fence. Because of its strength and construction, this fence requires no top or bottom rail and no more posts than the ordinary woven wire stock fence, or about one-half the number needed for poultry netting.

In strength, closeness of mesh, adjustability and economy, it excels all others.

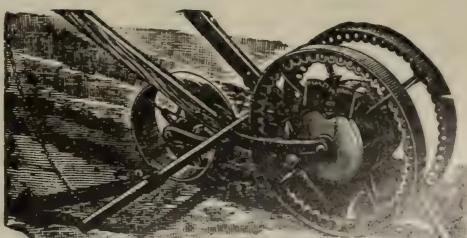
## In Bales of Ten Rods—165 Linear Feet

	Per bale.	Weight.	SHORT LENGTHS, $1\frac{1}{4}$ CENTS PER SQUARE FOOT.
24 inches wide.....	\$3.20	26 pounds	SPECIAL PRICES IN LARGE QUANTITIES.
36 inches wide.....	3.90	32 pounds	PRICES SUBJECT TO CHANGE WITHOUT
48 inches wide.....	4.70	41 pounds	NOTICE.
60 inches wide.....	5.40	48 pounds	
72 inches wide.....	6.10	54 pounds	

## Far-Famed "Planet Jr., " Garden Tools

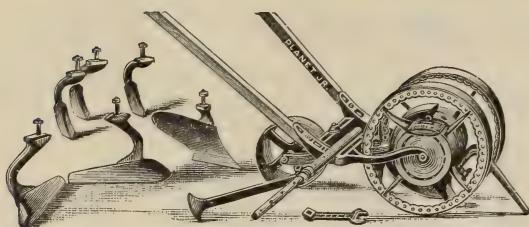
These are the most popular and complete garden tools made. They are known the world over, and beyond question are the most perfect in design, construction and finish, and most practical yet invented. No wide-awake farmer or gardener can afford to be without them. Space will not permit illustrating and describing all of the "Planet, Jr." tools, but we will gladly send a fully-illustrated catalogue to any who desire it.

DO NOT class the "Planet, Jr., " goods with the many lines of garden tools on the market at a lower price, as there is no comparison when it comes to material and workmanship.



No. 2 Drill Seeder. Price, \$8.00.

## FAR-FAMED "PLANET JR." GARDEN TOOLS—Continued



No. 25 Combined Hill and Drill Seeder and Double-Wheel Hoe, Cultivator, Rake and Plow. Price, \$14.

11½-inch wheels. Hopper holds 2½ quarts. It practically combines in one tool the No. 4 Drill and No. 12 Double-Wheel Hoe.

As a drill it is almost identical with the "Planet, Jr." No. 4 Drill; will sow in drills or hills, 4, 6, 8, 12 or 24 inches apart, and has the same feed, hill-dropping mechanism, and automatic device for throwing out of gear, and the new combined cut-off and seed index, with brass thumbscrew adjustment. It is thoroughly substantial and is accurate in sowing all kinds of garden seeds, in either hills or drills.

No. 4 Combined Hill and Drill Seeder and Wheel Hoe Cultivator and Plow. Price, \$11.

Drill only, \$8.50.

This admirable tool combines in a single convenient implement a capital hill-dropping seeder, a perfect drill seeder, a single-wheel hoe, a cultivator, and a plow. It holds two quarts, and as a seeder is like the No. 5, sowing in continuous rows, or dropping in hills at five different distances. It is thrown out of gear by simply raising the handles. The index is accurate, simple and easily set. The drill is detached and the tool frame substituted by removing but one belt. It then becomes a single-wheel hoe, garden plow, or cultivator. It is useful almost every day of the season, at every stage of garden work. With this one implement the small farmer can do practically all the work in his small crops.

A set of three rakes supplied when specially ordered. Price, \$1.00 extra.



No. 3 Hill and Drill Seeder. Price, \$11.

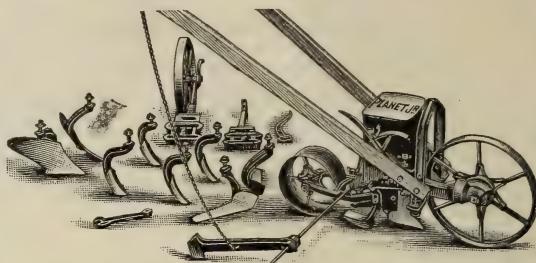
Hopper holds three quarts; 15-inch patent steel driving-wheel, with broad face, which makes the drill run easily, even when full. The quantity of seed is regulated by an accurate index, conveniently placed at the top of the handle, and carefully graduated for either hill dropping or drilling. The flow of seed is started or stopped by a single movement of the forefinger. The roller is broad and hollow faced, leaving a wide, smooth track for the wheel hoe. It is extremely simple and will not injure the most delicate seed.



#### DOUBLE-WHEEL HOES.

The "Planet, Jr." double-wheel hoes are the greatest tool in the world for the gardeners. They do more work, and do it better and easier, than can possibly be done in any other way. They represent the very highest perfection in every detail.

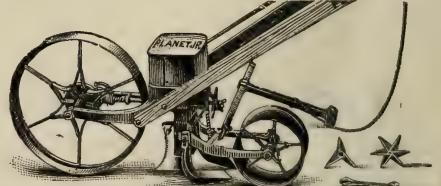
No. 11 Double-Wheel Hoe, Cultivator, Rake and Plow. Price, with attachments as shown in cut, \$9.50.



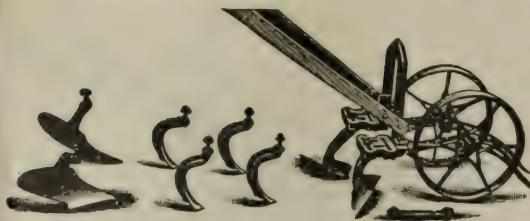
"Planet, Jr." No. 1, Combined Drill, Seeder and Wheel Hoe, Cultivator and Plow. Price, \$9.50.

This has long been the most popular combined tool made. As a seed sower it is the same as No. 2 Drill Seeder, smaller. From a drill it is changed to its other uses by removing two bolts, when hoes, etc., can be quickly attached. It is an excellent seed sower, a first-class double or single wheel hoe.

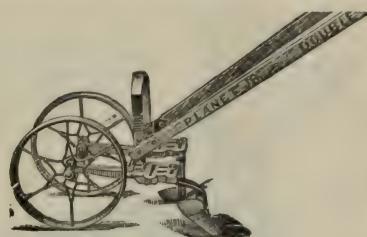
A pair of 6-tooth rakes supplied when specially ordered. Price, \$1.00 extra.



## FAR-FAMED "PLANET JR.," GARDEN TOOLS—Continued



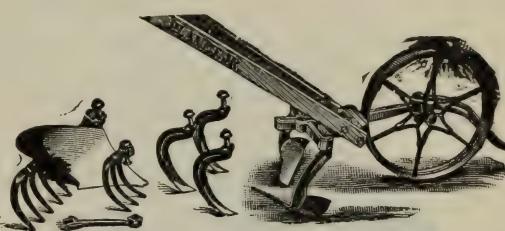
No. 12 Double Wheel Hoe, \$7.50.



No. 13 Double Wheel Hoe, \$5.50.



No. 16 Single Wheel Hoe, Cultivator, Rake and Plow. Price, \$6.00



No. 17 Single Wheel Hoe, Cultivator and Plow, as in cut, \$5.50.

Farmers' No. 19 Single Wheel Hoe, Cultivator and Plow. Price, \$4.50.



No. 17½ Single Wheel Hoe and Cultivator. Price, \$5.00.

This machine is similar to No. 17, except it has no plow, but it has a leaf lifter. Thousands of them are sold annually for cultivating sugar beets and onions.

No. 18 Single Wheel Hoe, with pair Hoes only. Price, \$4.00.

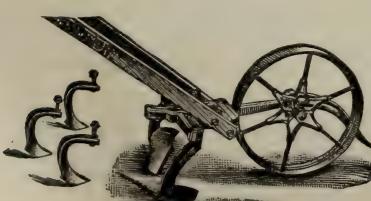


No. 6 "Planet, Jr." Combined Hill and Drill Seeder Wheel Hoe Cultivator and Plow.

This latest "Planet, Jr." Hill and drill Seeder and Wheel Hoe has been under construction for two years past, and has been held back until every detail has been made as nearly perfect as it seems possible to have it.

Packed weight, 58 lbs. Price, \$13.50.

No. 6 "Planet, Jr." Combined Hill and Drill Seeder, Hoe, Cultivator and Plow. Packed weight, 58 lbs. Price, \$13.50.



This new and attractive implement is especially designed for the farmer's garden work, though

it offers to every one, with either field or garden, a cheap and effective tool for all hand wheel hoe operations. The wheel is high, and is made with stiff steel rim and spokes; the handles may be readily changed to suit man or boy.

The tools are as follows:—

A large garden plow of hard steel, smoothly polished, throwing a neat furrow.

Ten-inch sweep. This is the latest and best pattern; is thin, and is a perfect weed killer.

Six-inch sweep. Same pattern as ten-inch.

Four-inch cultivating tooth. For deep cultivation and for all thorough work.

Two-inch cultivator tooth. For still deeper work, and for marking out for onion sets, etc.

## FAR-FAMED "PLANET JR.," GARDEN TOOLS—Continued



No. 8 Horse Hoe and Cultivator. Price, with Attachments as in Cut, \$8.50.



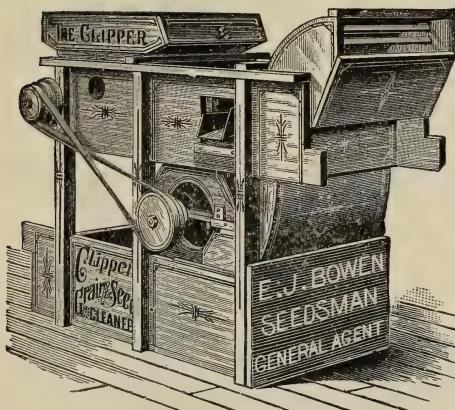
"Planet, Jr." Twelve-Tooth Harrow, Cultivator and Pulverizer. Price, Plain, \$6.50; with Wheel, \$7.50; Complete, \$9.00.

The "Planet, Jr." Horse Hoe is by far the best machine of its kind on the market. It is adapted to every kind of cultivation and a great variety of work.

**REMEMBER** this list is **ONLY PART OF**  
**WHAT WE CARRY IN STOCK.**

Write for our handsome complete Catalogue of "Planet, Jr." Goods. Free.

## THE CLIPPER GRAIN AND SEED CLEANERS



The "Vertical Blast" (a distinctive feature of our machines) has won for the "Clipper" the highest testimonials from hundreds of the most prominent grain and seed dealers and growers in the world.

**"THERE ARE OTHERS," BUT NOT LIKE THE CLIPPER**

We have sold over three car-loads of these cleaners in Oregon and Washington during the past two years, and they please the people. Can't help it.

They are guaranteed to do the work claimed, or money refunded.

A set of ten zinc screens made especially for our Western grain and seeds goes with each mill. You can separate cheat, cockle, wild oats, dog fennel heads, etc., from wheat and oats in one operation.

**PRICES.**

No. 1—\$30. Capacity about 40 bushels market wheat per hour.

No. 2—\$35. Capacity, about 50 bushels market wheat per hour.

No. 6—\$80. Capacity about 250 bushels market wheat per hour.

## PRUNING TOOLS

## WALTER'S IMPROVED TREE PRUNERS.

This pruner is indispensable in trimming up trees. Price, with—

8-foot Handle .....	\$1 00
10-foot Handle .....	1 10
12-foot Handle .....	1 25

## THE LEVIN PRUNER

Cuts clean; does not mash the twig. No. 23 cuts  $\frac{3}{4}$  inch. Price, 75c; post-paid, 85c.

## PRUNING SAWS.

Duplex.....	18-inch, 80c; 20-inch, 85c
California (curved blade).....	75c 25c

## BRANCH SHEARS.

Twenty-six inch .....	\$1 00
Forty-one inch .....	1 25
No. 12, with flat springs, 45c; postage, 15c.	
No. 14, with spiral springs, 60c; postage, 15c.	
No. 4665, 9-inch California pattern; German make, black finish, polished blade; 75c; postage, 15c.	

No. 4666, 9-inch, same pattern as 4665; bright finish, polished blade, spiral steel spring. Made for hard service. \$1.50; postage, 15c.

## GARDEN TROWELS.

First-class garden trowels, with 6-inch steel shank, hardwood handle. Price, 20c; post-paid, 25c.

## HAND CORN PLANTERS

These planters are a great success. They save seed, time and labor. It is easily worked and a most satisfactory tool in every way. Price, \$1.50. Weight, 6 lbs.

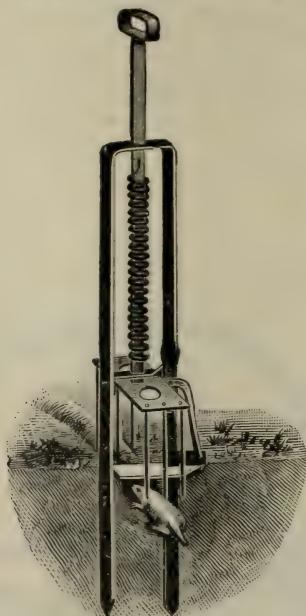
## ROTARY CORN PLANTER.

Decidedly the best hand corn planter made, and a very desirable implement for those who have a quantity of corn to plant. It puts the corn exactly where you want it, and at a proper depth.

## KING OF THE FIELD.

Has no objectionable features; is made of good material. Has iron seed box and iron channel; foot of polished steel. Strong, durable, and gives universal satisfaction. Price, \$1.25. Weight, 5 lbs.

## Reddick Mole Trap



In the early part of the season the mole run shows above the ground, and all that is necessary is to press on the runway with the heel closing it for a few inches, and set this trap directly straddle of the run. Full directions with each trap.

NO MOLE CAN PASS UNDER IT AND LIVE. These traps are strong and durable and worth the price to any one troubled with moles. Price, \$1.00.

## RAFFIA.

1 lb., 25c; 5 lbs., \$1.00.

## GRAFTING WAX.

Add 1c per oz. if wanted by mail.  
 $\frac{1}{4}$ -lb. cake, 10c;  $\frac{1}{2}$ -lb., 20c; lb., 40c.

## OREGON MOSS.

For use in hanging baskets and packing trees, shrubs, plants, etc., for shipping. Price, 1 lb., 4c; 100 lbs., \$3.00. Special prices to those who buy in large lots.

## TREE LABELS.

Painted . . . . .	70c per 1,000
Painted, wired . . . . .	\$1.00 per 1,000
Unpainted . . . . .	60c per 1,000
Unpainted, wired . . . . .	90c per 1,000

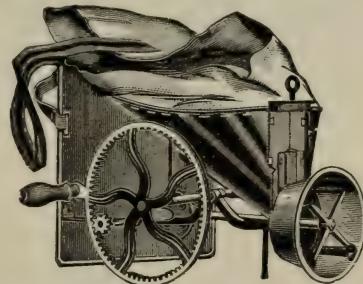
## WEEDERS.

Diamond-shape steel blade, with wood handle. Handy, strong and durable. 15c; post-paid, 25c.

## Broadcast Seed Sowers

## IMPROVED CAHOON.

This is probably the most popular broadcast sower on market. They have a force feed, and throw the seed from 15 to 36 feet, according to weight.

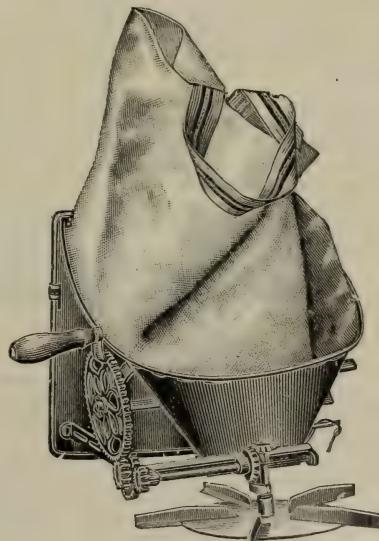


Price, \$4.00

## THE GRANGER.

We catalogue three of the most practical and successful broadcast seed sowers made.

They are a great saving of time and seed, and are well worth the price to any one who has any seeding to do.



Price, \$3.50.

Considered by some to be a better machine than the above. It throws the seed straight out before the operator, instead of up. Capacity, 22 quarts.

## SPRAY PUMPS AND SPRAYERS



On the following pages you will find descriptions and prices of the latest improved spraying outfits.

This illustration shows the usual method of mounting the outfit for general orchard spraying. Two or more extra barrels of spray may be carried in the wagon to supply the pump. When the foliage on the trees is high above the ground, it will be found convenient to use extension pipes or a long hose, to which the nozzle may be attached. By this means the spray can be guided to any part of the tallest trees.

This year we have added a new line of pumps to our list, those manufactured by the Field Force Pump Company, who have spent over twenty years in the spray-pump business. Their spray-pumps come to us very highly recommended by Eastern fruit growers, and we are sure they will prove of equal value to our customers.

**Spraying is no longer an experiment but a science.**

### The Empire King

Has an automatic mechanical agitator, an automatic brush for keeping strainer clean, seamless brass cylinder  $2\frac{1}{2}$  inches inside diameter, 8 inches long, with solid brass plunger and rod, brass valves without leather or rubber and brass screw spout with stopcock. The agitator works in connection with cogs from the lever, connecting with a companion gear at the upper end of the steel shaft; at the lower end of the shaft is a horizontal wooden bar, to which are attached two upright paddles. Thus, when the lever is moved upward or downward, these paddles travel in a semicircle in bottom of cask, and PREVENT THE POISON FROM SETTLING.

The pump has a fine brass strainer at the bottom of suction pipe. It also has a BRUSH on the agitator arm, which swings under the suction strainer and keeps it clean, hence no clogging of pump or nozzles.

This pump has a long lever, works easily, and is GUARANTEED IN EVERY RESPECT.

The air-chamber is large, which insures an even flow, and the STOP-COCK on the spout is a valuable feature of this pump. Weight, not including barrel, 55 pounds.

#### PRICES.

**Empire King Pump, with double or single brass spout for one or two leads hose, shut-off cock, suction pipe, brass strainer, no hose, no nozzle, no barrel. \$15.00.**

To the above price add price of the spray nozzle or nozzles and amount of spray hose wanted, also extension pipe, if wanted. See prices on following pages. This is the most satisfactory way, as few people want exactly the same outfit.

We put coupling on the hose free of charge and see that everything is right before it goes out.

We supply barrels and mount the pumps for \$1.50 extra.



**Empire King, No. 63.**

## The Empire Queen

With automatic mechanical agitator. This pump has a seamless brass cylinder, two inches inside diameter and eight inches long, brass plunger with leather bucket, brass lower valves, and brass rod; also a brass screw spout, to which hose is attached by a screw coupling. It has a large air-chamber, by means of which the spray is strong and continuous.

The agitator, brass strainer, suction pipe, and brush on agitator arm are same as shown in the Empire King. This pump works easily, and is guaranteed in every respect. Weight complete, as above, 45 lbs.

Price of Fig. 62, as described above, no hose, no nozzle, no barrel, \$10.00.

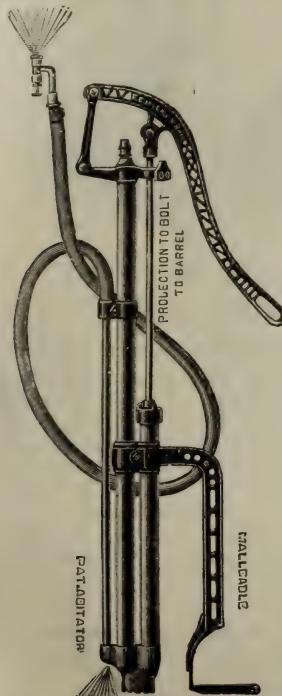
For spray hose, nozzles, etc., see prices on following pages.

### No. 324.

This pump has all the advantages of the ordinary barrel pump and bucket pump combined, and is sold at a moderate price. Has one-half more air-chamber than any other make of bucket pump. Is made of brass, with ball valves; handle and foot rest are malleable iron.

The work is all done on the down stroke of the handle, and it can be operated with one-third the power required for any other old-style bucket spray pump.

When used as a barrel pump, detach the foot rest and attach pump to top of barrel.



Price of No. 324, with agitator, complete with hose and Vermorel fine, coarse, or solid stream nozzle, \$4.50.



Empire Queen, Fig. 62.

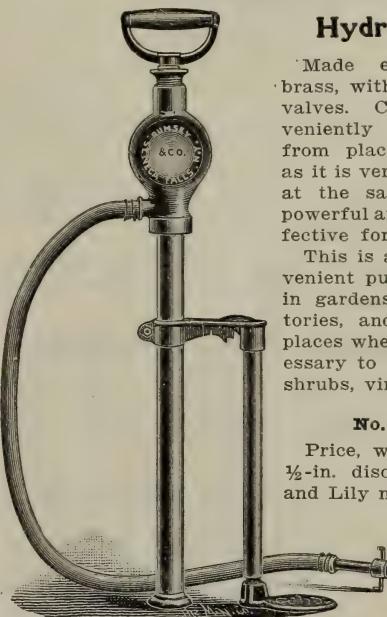
## Hydropult

Made entirely of brass, with brass ball valves. Can be conveniently transported from place to place, as it is very light, but at the same time a powerful and most effective force pump.

This is a most convenient pump for use in gardens, conservatories, and in other places where it is necessary to spray small shrubs, vines, etc.

### No. 663.

Price, with 3 ft. of  $\frac{1}{2}$ -in. discharge hose and Lily nozzle, \$5.00.



No. 663 Hydropult

## The Little Gem

This pump is made entirely of brass, including the working parts, discharge and connecting tubes, plunger, rod and air-chamber, so that all parts (except the rubber hose) that come in contact with the fluid are of brass, making it practical for using any spray. It is supplied with our "Niagara Nozzle," which throws a fine, misty spray, using only a small amount of liquid. It has two feet of hose, to which is attached a metal hand tube, and to this the "Niagara Nozzle" is screwed. This nozzle is nicely graduated by means of a small handle, and will throw a spray



No. 53 Little Gem

of any degree of fineness, or a round stream to a distance of fifty feet. It is also furnished with a shut-off cock.

The large capacity of the air-chamber and the length of cylinder, together with the power of the inflating valve, enables it to throw a continuous stream or a steady spray.

This pump is neat in design, very compact, strong and durable; nothing liable to get out of repair or wear out. Weight of the pump, complete, boxed for shipment, is 7 pounds.

There is no nail pump on the market equal to the "Little Gem." Price, with 2-foot hose, nozzle and foot stirrup, \$3.00.

### The Aquaject or Fire Annihilator

Cut No. 267 shows the practical operation of our new and improved Portable Aquaject, the most perfect and effective hand apparatus ever invented for throwing water. All working parts liable to rust or corrosion are made of brass. For

washing windows and carriages and showering gardens or conservatories it has no equal. It is adapted for throwing liquid solutions of all kinds to destroy noxious insects and bugs of every nature on plant, vine or tree, and should be kept in every house, store or factory in the country for fire protection. In fact, in a diminished degree it is capable of every use of an ordinary force pump, and far more convenient. It is always ready for use, and not liable to get out of order. Will throw water at the rate of eight to ten gallons per minute to a height of fifty feet or more.

With each pump is sent suction and discharge hose connected, so that it requires no labor to put it in immediate operation. Longer lengths of hose can be furnished, if desired.

**Price of No. 267, with three feet suction and three feet discharge hose, brass discharge pipe, and rose sprinkler, \$5.50.**



No. 267. Aquaject.

### SPRAY NOZZLES, CONNECTIONS, ETC.

All fruit growers contend that the nozzle is the most important part of the spraying outfit. It must be arranged to throw a mist, and not drops. By putting on too much material, you damage the foliage.

The best results are obtained by covering the entire surface, and with just as little in one place as possible.

#### WOODASON'S LIQUID AND POWDER SPRAYER.

For powder, small size.....	\$1 50
For powder, large size.....	2 00
For powder, double cone.....	3 00
For liquid, small .....	1 50
For liquid, large .....	2 00

#### IMPROVED VERMOREL NOZZLE WITH DEGORGEER.

No. 35 is arranged with stuffing box, so that the liquid will not wet the operator while being used; fitted for  $\frac{1}{2}$ -inch male end of  $1\frac{1}{4}$ -inch pipe. Each nozzle is furnished with two caps, with different sized openings for coarse or fine spray.

The above fitted for  $\frac{3}{4}$ -inch hose. Price each, \$1.25.

#### BORDEAUX SPRAY NOZZLE.

##### Use This Nozzle for Whitewashing.

No. 36 will throw a fine, fan-shaped spray, and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream, or may be shut off altogether, as desired. It is especially recommended for use in connection with the Bordeaux mixture. Price each, \$1.00.

#### HOP NOZZLE.

No. 37 represents a nozzle especially designed for use in hop-yards, vineyards, or any place where delicate vines are to be sprayed. This nozzle throws a very broad, fine spray. Fitted for  $\frac{1}{4}$ -inch pipe or  $\frac{1}{2}$ -inch male end. Price each, \$1.50.

#### SPRINKLING NOZZLES.

**Gem Nozzle**, adjustable, 60 cents each.

**Crescent Nozzle**, adjustable, 50 cents each.

**Plain Nozzle**, 50 cents each.

#### BAMBOO EXTENSION.

10-foot, complete, with globe valve.....	\$2 00
8-foot, complete, with globe valve.....	1 75
Plain 8-foot Extension Pipe. Price, 50 cents.	

## SPRAY NOZZLES, CONNECTIONS, ETC.—Continued

## HOSE REDUCER.

No. 43 represents a hose reducer, used to reduce hose to  $\frac{1}{4}$ -inch pipe. It is used to connect an ordinary hose coupling to pipe extension.

Price each, 25c.

**Do not wait** until the pump is needed before sending in your order. Order early. It is the early spray that kills the worm and prevents fungus.

## DEWEY NOZZLE.

This nozzle throws a fine rotary spray, has two caps, one of which has a larger opening for orchard spraying. This is a very economical nozzle, in the use of liquids. Special attention is invited to the form of construction, it having no projections to catch on the limbs.

Price,  $\frac{1}{4}$ -inch, \$1.00.

## Y OR TWO-STREAM HOSE CONNECTION.

No. 44, with  $\frac{3}{4}$ -inch male ends and lateral discharges, either  $\frac{3}{4}$  or  $\frac{1}{2}$ -inch, according to the pump on which it is to be used. Price, each, 80c.

## SPRAYS AND SPRAY MATERIALS

**Remember—“No Worms When You Spray.”**

Add 16c per lb. if wanted by mail. Liquids can not be mailed.

## DUNN'S SOLID SPRAY.

## No. 1—Lime, Sulphur and Salt.

Prepared in solid form, ready to dissolve.

For winter use, 1 lb. to 2 gals. of water; for summer, 1 lb. to 8 gals. of water. Price, 1 lb., 10c; 25 lbs. to 50 lbs., 5c per lb.; 100 lbs. or more, at 4c per lb.

## No. 2—Lime, Sulphur and Blue Vitriol.

Five cents per lb.; 100 lbs. or more, 4c per lb.

## Spray No. 7—Bordeaux Mixture.

We now have this invaluable remedy prepared in liquid form. Directions are attached to each can. One gallon of this condensed liquid makes 50 gallons of spraying liquid. It is BETTER and CHEAPER than the ordinary home-made mixture. Qt., 60c; gal., \$1.50.

## SPRAYING MATERIAL.

Prices subject to market changes.

## Arsenic White, lb., 15c.

## Sulphate of Copper (bluestone), lb., 15c, 2 lbs., 25c.

Paris Green,  $\frac{1}{2}$  lb., 20c; lb., 35c.London Purple,  $\frac{1}{2}$  lb., 20c; lb., 35c.

## Sulphur, powdered, 10 lbs., 25c; bag 110 lbs., \$2.25.

Whale Oil Soap, lb., 10c; 25 to 50 lbs.,  $5\frac{1}{2}$ c lb.; 100 lbs., \$5.00.

## Quassia Chips, 1 lb., 10c; 10 lbs. or more, 7c lb.

Hellebore,  $\frac{1}{4}$ -lb pkg., 15c;  $\frac{1}{2}$ -lb., 25c; lb., 35c.

## Tobacco Dust, lb., 10c; 10 lbs., 75c.

## Tobacco Soap, post-paid, 25c cake.

Fir Tree Oil Soap,  $\frac{1}{2}$ -lb. can, 25c; by mail, 35c.

## HAMMOND'S SLUG-SHOT.

A well-known remedy for all kinds of insect pests on vegetables, fruit and flowers. Non-poisonous.

1 lb., 15c; 5-lb. pkg., 50c.

**Arsenate of Lead**—The best and latest insecticide. It will not burn the foliage and stays on the trees longer than any other spray made.

2-lb. can, 50c; 5-lb. can, \$1.00; 10 lbs., \$1.80; 25 lbs., \$4.25; 100-lb. keg, \$15.00.

## BRASS HOSE NIPPLES.

Price each,  $\frac{3}{4}$ -inch, 30c; 1-inch, 40c.

Extra length, tapped for agitator.

Price each,  $\frac{3}{4}$ -inch, 40c; 1-inch, 50c.

**Lily Nozzle**—Each ..... 50c

**Globe Valve**, for  $\frac{1}{4}$ -inch iron pipe ..... 75c

## SHUT-OFF COCK.

Price,  $\frac{1}{4}$ -inch, brass ..... \$0 75

Price,  $\frac{3}{4}$ -inch, brass ..... 1 00

## THE NIAGARA SPRAY NOZZLE.

Produces a fan-shaped spray, either fine or coarse, or throws a solid, round stream.

It is also provided with a shut-off cock.

Notice the improved shape of the handles; nothing to catch on the limbs.

Price, \$1.00.

## MALE END.

No. 42 represents male end for  $\frac{1}{2}$ -inch hose, threaded to receive  $\frac{1}{4}$ -inch pipe or any spray nozzle shown on this or preceding page.

Price each, 30c.

## MALE END.

No. 42 represents male end for  $\frac{1}{2}$ -inch hose, threaded to receive  $\frac{1}{4}$ -inch pipe or any spray nozzle shown on this or preceding page.

Price each, 30c.

## ROSE LEAF.

Concentrated EXTRACT of TOBACCO. Very effective for destruction of plant lice. Directions on each can. Pt., 40c; qt., 60c; gal., \$1.75.

## NICO-FUME TOBACCO PAPER.

24 sheets, 75c per can.

144 sheets, \$3.50 per can.

288 sheets, \$6.50 per can.

## NICO-FUME LIQUID.

Pints, \$1.50;  $\frac{1}{2}$ -gal., \$5.50 each.

## HAMMOND'S GRAPE DUST.

The best known remedy for mildew on roses, grapes, and gooseberries. Apply with "Woodason" powder bellows.

1 lb., 15c; 5-lb. pkg., 50c.

## KEROSENE EMULSION.

Used for woolly aphid and clover mite.

Prepared ready for use.

One gallon makes fifty gallons ready for use.

Per gallon can, \$1.50.

## AVENARIUS CARBOLINEUM.

The famous German wood preserver and insecticide. Paint or spray your chicken houses, hog pens, stables, sheds, etc., with Avenarius Carbolineum, to permanently destroy all poultry and other vermin and preserve your buildings from rot and decay.

Qt. can, 50c; gal., \$1.50; 5-gal. cans, \$6.00.

## WHAT IS GAINED BY SPRAYING.

Foliage is the lungs of the tree and vine, and must be kept in healthy condition to secure profitable results, consequently by spraying we get not only LARGER CROPS OF FRUIT and BETTER QUALITY, but we add to the THRIFT AND VIGOR OF OUR ORCHARDS and vineyards.

We are sure that the horticulturists of this great country can not do anything that will more advance their individual interests and the horticultural development of this State than by putting this new art of spraying into use in all their orchards and vineyards.

## SPRAY AND GARDEN HOSE

In connection with our SPRAY PUMPS AND GARDEN TOOLS, we have added a complete line of the very best cotton and rubber hose, for garden and spray work. Our hose is made by one of the most reliable rubber companies, and we guarantee it to be new rubber, and just as represented.

All 50-foot lengths of hose include couplings at following prices. Prices on suction, wire-wound, and larger hose on application.

**Adjustable Lawn Sprinkler**, screws onto hose couplings, throws the water high or low, coarse or fine; very handy and convenient.

Price, 25c.

**Hose Couplings**, for  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch hose, 20c pair. **Clamps** to fasten COUPLINGS on with  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch, 5c each.

**Wire Bands** for mending hose, 25c a dozen. **Fliers** for putting the WIRE BANDS on, 25c each.

**Mending Tube** for joining hose together, 5c each.

**Washers**, rubber, for  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch COUPLINGS, 10c a dozen.

**Gem Repair Outfit**, contains six mending tubes, six wire bands, and a patent plier for fastening the bands; complete, 50 cents.

## SEAMLESS RUBBER HOSE.

	Per Foot.		
Brand.	$\frac{1}{2}$ inch.	$\frac{3}{4}$ inch.	
<b>Garden</b> , guaranteed for ordinary pressure	\$0 10	\$0 12	$\frac{1}{2}$
<b>Columbia</b> , guaranteed first class..	12	14	
<b>Niagara</b> , three-ply, highest grade garden hose. Best value, fully guaranteed; will do for spray pump of light pressure.....	13 $\frac{1}{2}$	15	
<b>Niagara</b> , SPECIAL SPRAY HOSE, four-ply, made especially for high-pressure spray pumps .....	15		
<b>Sampson</b> SPRAY HOSE, seven-ply. First-class hose for spray pumps. Good value.....	13		

## SEAMLESS COTTON HOSE.

<b>White Cotton</b> , very serviceable, and good value for the money.....	09	12	
<b>D. B. Line</b> , first class, extra good value, guaranteed .....	12 $\frac{1}{2}$	15	
<b>Phoenix</b> , very best extra heavy cotton hose. Mildew proof.....	15	17	
<b>Hose Reel</b> , \$1.25.			

## FERTILIZERS

## Do You Use Any?

If not, you should. Do not say it costs too much. If you use them intelligently, YOU CAN NOT AFFORD TO DO WITHOUT THEM. They will INCREASE YOUR CROPS ENORMOUSLY, and your vegetables will mature quicker.

The best results from the use of commercial fertilizers will be derived by those who apply them in the fall or early spring. It is very desirable that they be well mixed with the soil, otherwise they can not be reached by the roots. No positive rule as to quantity can be given. The average amount is 400 or 500 pounds per acre, but market gardeners often use three or four times that amount, and find that it pays.

## VEGETABLE FERTILIZER.

This compound is prepared specially for potatoes, vegetables and garden truck, and is unsurpassed for bringing these crops to early maturity. 100-lb. sacks, \$2.00.

## COMPLETE FERTILIZER.

An all-around fertilizer for ordinary farm and garden products. 100 lbs., \$2.00; ton, \$35.

## FRUIT FERTILIZER.

This excellent fertilizer is made expressly for fruits. Its use for fruit trees, vines and shrubs of all kinds will be followed by a great improvement in the quality and increase in quantity. 100-lb. sacks, \$2; ton, \$35.

## LAWN FERTILIZER.

For grass lands, lawns and flowers. This article has been specially prepared to meet the requirements of grass lands, and has been used on a great many lawns in and about this city, with highly satisfactory results. Do not use barnyard manure on a lawn, for it will fill it full of weeds. This fertilizer will feed the roots better and bring in no weeds. 25-lb. sack, \$1.00; 50-lb. sack, \$1.50; 100-lb. sack, \$2.50.

## HOP FERTILIZER.

This is an excellent manure, and is just the thing needed for the successful growth of hops. A trial will convince hop men of its value. 100 lbs., \$2.00; 500 lbs., \$8.50; ton, \$33.

## DOUBLE SUPER-PHOSPHATE.

This is a first-class article of pure bone phosphate, and acts in a remarkably short time. 100 lbs., \$3.50.

## PURE BONE MEAL.

We supply pure bone meal, finely ground, for use on crops of all kinds. Animal bone is a most valuable enricher of the soil, and a crop producer, and is sure to pay well when used. 100 lbs., \$2.50; ton, \$35.00.

**Land Plaster**, 80-lb. sack, 75c; ton, market price. **Nitrate of Soda**, 100 lbs., \$3.50.

**Nitrate of Potash**, 1 lb., 4c; sack, 224 lbs., \$7.50. **Sulphate of Potash**, 1 lb., 4c; sack, 224 lbs., \$8.00.

**Kanit**, 1 lb.,  $\frac{1}{2}$  c; sack, 224 lbs., \$2.25. For larger quantities of any of these fertilizers, write for special quotations.

## Armour's Odorless Flower Food

A safe, clean, and high-grade fertilizer, free from disagreeable odor, prepared especially for feeding plants grown in pots. It is a wonderful invigorator, producing luxuriant, healthy growth, foliage of rich texture, and larger and more brilliant flowers.

It contains in a highly-concentrated form all of the ingredients of plant food essential to the highest development of plants and flowers. It is very soluble, and is readily assimilated, so that

marked improvement is usually noticed in ten days' time. It is fine and dry, clean, and easy to apply, either sprinkled over the surface of the soil as a top dressing or dissolved in water (stirring well). Detailed directions on each package.

Half-pound box, 25c; by mail, 35c.

One-pound box, 50c; by mail, 65c.

**Try it. A 1-pound box will do 25 plants for 1 year.**

## Wilson Bros.' Dry Bone and Shell Mill

This is one of the handiest appliances in use. It is the best thing for grinding dry bone, oyster or clam shells, glass, grains, grit, charcoal, etc. It is a well-made mill, and hundreds of them are in successful use. We have never yet received a complaint from any one to whom this mill has

been sold. The low price at which it is sold places it within the reach of every poultry man, and it will pay for itself in less than one year's time.

### PRICE.

Price, without stand, \$5.50; weight, 33 pounds; diameter of hand wheel, 20 inches.

## MANN'S CLOVER CUTTER

This is the only first-class clover cutter on the market. It is made entirely of iron and steel, and can not warp or shrink. This cutter was designed with the special object in view of making the knives simple to adjust and easy to sharpen, something that had not been accomplished in any other clover cutter. At the same time, this cutter is so simple in construction that it will not get out of order.

The importance of the simplicity of this cutter would be appreciated by the reader if he could compare it with the complicated machines heretofore offered to poultry men. The old-style cutters were not only complicated, but costly. The knives are made of the finest steel, securely fastened to a plate that can be set with positive accuracy.

The Mann Clover Cutter cuts any kind of hay or clover, either dry or green, and does the work more rapidly than any other hand cutter of the same size on the market. Each revolution of the balance-wheel produces twelve cuts, where other cutters produce only three to eight.

All dangerous parts of this cutter are inclosed, so that a boy or girl can run it without risk. The workmanship is guaranteed to be first class in every particular, the result being a strong, practical and serviceable machine, offering the best value for the least money.

### PRICES.

Without stand, for use on bench or table....\$9.50  
With iron stand, all complete.....12.00

## STEARNS' CLOVER CUTTER

Does good work. Quite small, but worth the price asked. Weight, 6 lbs. Price, \$3.00.

## STANDARD POULTRY PUNCH NO. 1

The best poultry punch on the market. Where a first-class punch is desired, one that will do the work accurately, quickly, and easily, and will last a lifetime, the Standard punch is recommended. Price, \$1.00, sent post-paid to any address.

### NEST EGGS MEDICATED EGGS.

Used as nest eggs, and also to keep the lice away.  
Three for 25 cents; post-paid; dozen, 50 cents; by mail, 90 cents.

### CHINA NEST EGGS. 30 cents dozen; by mail, 50 cents.

## INSECT POWDER BLOWERS

For use in applying insect powder of any kind on fowls, old or young. Will work a saving of 25 per cent in the insect powder used. There is no need to waste any powder, if you use this bellows. It is the handiest thing out, well made, and lasting.

Price, 25 cents each, by mail, post-paid.

**LEE'S LICE KILLER**—Well and favorably known. Qt., 35c;  $\frac{1}{2}$  gal., 60c; gal., \$1.00.

## TOBACCO DUST

For use in dust baths and nests. A cheap and effective exterminator of lice. Per lb., 10c; 3 lbs., 25c.

Wire Nests—Each.....	25c
Paper Egg Boxes—Each.....	20c and 25c
Anti-Lice Roost-Hangers—Each.....	15c

## LAWN MOWERS

Ball-Bearing, 14-inch .....	\$8.50	Others at .....	\$3.50, \$4.50 and \$5.00
Ball-bearing, 16-inch .....	9.50		

# Good Poultry Books

All sent post-paid at list price.

**"THE NEW AMERICAN STANDARD OF PERFECTION"**—This is the book used as a guide in producing standard-bred or exhibition fowls. It is published and copyrighted by the American Poultry Association, and is the only authorized guide for standard breeding. It is the book that poultry judges use at the poultry shows, and the book on which all comparison and score-card judging is based. It consists of over 200 pages, is durably bound in cloth, and the price, \$1.50 per copy, post-paid, is fixed by the publishers and the American Poultry Association. In this book will be found the name of every breed and variety of chickens, turkeys, ducks and geese, and a minute description of each variety, male and female, covering every section in both shape and feathering. We carry the "Standard of Perfection" in stock, and supply it, post-paid, at the established price. Every fancier should have this book, \$1.50.

**"THE HEN BUSINESS"**—From A to Z, being chapters from practical, every-day experience with poultry, covering a long period of years, by Mrs. May Taylor. The book has 20 chapters, each one of which may prove worth the price of the book to amateurs. Mrs. Taylor is a practical writer for the poultry press, and in this book has condensed the experience of a lifetime in poultry raising. **Price, 25 cents.**

**"INCUBATION AND ITS NATURAL LAWS"**—Written by Charles A. Cyphers. The best book of its kind ever written. **Price, 50 cents.**

**"LOW-COST POULTRY-HOUSES"**—A book of great practical value to every one who contemplates building a poultry-house. It contains plans and specifications, with cost of material, for structures worth from \$25 to \$100, also a chapter on fixtures and conveniences for the poultry-house. These plans are those of buildings in actual ex-

istence, and not imaginary air castles; 48 pages. **Price, 25 cents.**

**"AN EGG RECORD"**—Good for one year, with spaces for eggs collected, sold, set, price, etc. **Price, 25 cents.**

**"THE ART OF POULTRY BREEDING"**—By J. H. Davis. A book which combines the practical and scientific in poultry breeding, and treats the subjects of outcrossing, inbreeding, breeding to feather, crossbreeding, etc., enabling one to breed intelligently and for profit; 46 pages. **Price, 25 cents.**

**"FIVE HUNDRED QUESTIONS AND ANSWERS ON POULTRY KEEPING"**—A new edition (the fourth), making 23,000 copies that have been printed. It is "a mine of information" as the "Poultry Monthly" says, written in form of practical questions, authoritatively answered. Chapter I, Feed and Care; Chapter II, Diseases; Chapter III, Eggs; Chapter IV, Incubators and Incubation; Chapter V, Buildings; Chapter VI, Miscellaneous; Chapter VII, Turkeys, Ducks and Geese. **Price, 25 cents.**

**"UNCLE 'RASTUS ON POULTRY"**—Or the "Possum Creek Poultry Club." By J. H. Davis. A humorous book, written in pure negro dialect, but contains much common sense in its 14 chapters and 109 pages. The chapters on Score Cards and Judging, and the Chicken Business and Free Silver, are of unusual interest. Well illustrated. **Price, 25 cents.**

You will never regret putting a few dollars into these practical books. They are up to date and full of valuable information that will help you to be successful.

# Practical Books For Farmer and Gardener

## "Soiling Crops and Silo"

BY PROFESSOR SHAW.

**How to Cultivate and Harvest the Crops—How to Build and Fill a Silo—How to Use Ensilage.**

This new book is by far the most original and complete work ever written on the subject of which it treats. The book is divided into two parts, the first of which treats of the growing and feeding of all kinds of soiling crops that have been found useful in any part of the United States or Canada. The discussion is simple, clear and eminently practical.

The second part discusses the silo. No treatise on the subject has ever appeared that will approach in simplicity and comprehensiveness the way in which it has been handled by the author.

No progressive farmer can afford to be without this book, and to dairymen it will prove of highest value. Illustrated, 12 mo; 364 pages; cloth. **Price, post-paid, \$1.50.**

**"MUSHROOMS; HOW TO GROW THEM"**—By Wm. Falconer. This is the most practical work on the subject ever written, and the only book on growing mushrooms published in America. The author describes how he grows mushrooms, and how they are grown for produce by the most successful private growers. Engravings drawn from nature expressly for this work. Cloth. **Price, post-paid, \$1.00.**

**"MUSHROOMS; HOW TO GROW THEM"**—A little book, but full of easily-understood directions, which, if followed, would enable every one to grow his own supply of mushrooms. **Price, 10 cents.**

**"DAIRYING FOR PROFIT"**—Or the "Poor Man's Cow." By Mrs. H. M. Jones. This book has had a large sale at 50 cents. It is brimful of information about making dairying profitable. **Price, 25 cents.**

**"LANDSCAPE GARDENING"**—A treatise on the general principles governing outdoor art, with sundry suggestions for their application in the commoner problems of gardening. The best book of its kind ever offered to the public. Profusely illustrated; 12mo; 150 pages; cloth. **Price, post-paid, 50 cents.**

**"OUR FARM ON FOUR ACRES, AND THE MONEY WE MADE BY IT"**—This book was written by a lady, and, while containing many useful suggestions, it has the interest of a romance. Paper, 12mo. **Price, 30 cents.**

**"FLOWER QUERIES"**—A practical guide to floriculture, both indoors and out. It has 10 chapters and 48 pages, and is written in question and answer form. All who cultivate plants need it. **Price, 25 cents.**

**"FARMERS' INSTITUTE QUESTION BOX"**—A book compiled from the Question Box discussions of Farmers' Institutes, with special reference to dairying and the care of stock. It is written in the form of questions and answers. Worth many times its price to any man who keeps a cow. **Price, 25 cents.**

**"PIGEON QUERIES"**—A book for pigeon fanciers and breeders, written in question and answer form. F. M. Gilbert has written a chapter for this book, entitled "The Pigeon from Shell to Show Room." A prominent fancier says: "It is indispensable to pigeon keepers." Its value is not

measured by its cost. It has had a very large sale; three editions have been printed. Oftimes a single practical answer to a question will be the means of saving a valuable bird, and much attention has been given to the treatment of diseases. **Price, 25 cents.**

## R. P. J. Poultry Books

**"SUCCESS WITH POULTRY"** is a book of 96 pages, 9x12 inches in size, that contains, we believe, MORE and BETTER practical, reliable information on the subject of POULTRY FOR PROFIT than any other book published. Gives the cream of established facts. Written and compiled by the editor of the "Reliable Poultry Journal," who has given seven years of careful study to the poultry business. **Price, \$1.00.**

**"ARTIFICIAL INCUBATING AND BROODING"** is a most up-to-date and most practical work on this important subject. It is contributed to by the leading authorities of this country. It has 140 pages, each 12x9 inches, with over 100 illustrations, including eight full-page, copyrighted designs of modern brooder houses, laying houses, and incubator cellars. Complete instructions on the use and abuse of incubators. How to start right and go right in raising chickens by artificial means. **Price, 50c.**

**"BARRED, WHITE AND BUFF PLYMOUTH ROCKS"**—This book consists of 80 pages, each 9x12 inches. It contains an elegant color plate of a pair of Barred Plymouth Rocks, shown in their natural colors, reproduced from an oil painting made by the world's greatest poultry artist, Franklaine L. Sewell. Among the contributors are the following: A. C. Hawkins, E. B. Thompson, Bradley Bros., Wm. Ellery Bright, C. H. Latham, F. W. Richardson, Theo. Hewes, F. W. Hitchcock, W. S. Russell, C. A. Emry, S. S. Noble and others. **Price, 50c.**

**"THE WYANDOTTES, Silver, Golden, White, Buff, and Partridge"**—A new publication treating extensively upon this breed. The frontispiece is a handsome reproduction from Mr. Sewell's oil painting of "White Wyandottes to Date," representing the winning cockerel and pullet at Boston, in January, 1898. We have had made especially for this book, full-page drawings of Silver, Golden, White, and Buff Wyandottes. Eighty pages, fully illustrated. **Price, 50c.**

**"THE LEGHORNS, All Varieties"**—This publication will delight fanciers of that widely-bred and favorite fowl, the Leghorn. No breeder can afford to be without the information written by such judges as I. K. Felch, T. J. Marshall, H. S. Babcock, F. H. Shellabarger, Theo. Hewes, D. T. Heimlich, C. A. Emry, Chas. McClave, Ezra Cornell, W. S. Russell, F. B. Zimmer, Wm. Ellery Bright, and others. Twelve full-page illustrations, and many others. **Price, 50c.**

**"EGGS AND EGG FARMS"** is made up of contributions from experienced and successful breeders. It gives their methods of housing, breeding, rearing, and feeding fowls, with a view of in-

creasing egg production. The lengthy chapters on Pedigree Breeding will be invaluable to breeders of exhibition or utility fowls. An 80-page book, fully illustrated. **Price, 50c.**

**"DUCKS AND GEESE"** tells how the most successful breeders of the day manage their enormous flocks, and derive handsome profits; gives detailed instructions for breeding, rearing, and feeding, and presents the best and most reliable information relating to details of management and profits of ducks and geese. It is fully illustrated with up-to-date cuts of the big farms and their stock. **Price, 50c.**

**"TURKEYS, Their Care and Management"**—The most complete book written upon turkey culture. It treats of every branch of the subject. Among the prominent breeders who have spent time and effort in preparing articles for this book are Mrs. Mackey, Mrs. Jones, Mrs. Hargrave, Mrs. Singleton, S. B. Johnson, J. F. Crangle, W. J. Bell, B. F. Ulrey, B. F. Hislop, W. A. Moon, Ed Isley, J. A. Leland, and S. T. Jones. The colored reproduction of an oil painting by Sewell, aided by numerous half-tones, makes this the best turkey book published. **Price, 50c.**

**"POULTRY HOUSES AND FIXTURES"**—Consists of 32 large pages, 9x12 inches, and contains the latest designs of practical poultry buildings for the city lot, the village acre, and the farm; also complete and convenient houses for the fancier and plans for building extensive poultry farms. **Price, 25c.**

**"THE BANTAM FOWL"**—The first complete and full-illustrated Bantam book published in this country. The editor, T. F. McGrew, judge and breeder, spent months collecting and writing the matter, and over sixty copyrighted illustrations were made expressly for this book. Every person interested in Bantams, as pets or for profit, will want a copy. **Price, 50c.**

**"RELIABLE POULTRY REMEDIES"**—Consists of 65 pages, each 5x6 inches; points out the causes, describes the symptoms, and gives tried remedies for roup, colds, cholera, canker, indigestion, constipation, dysentery, congestion of liver, gapes, chicken-pox, black rot, crop-bound, scaly legs, bumble-foot, and other diseases of fowls. Contains full instructions on care of poultry to prevent diseases. **Price, 25c.**

**"INCUBATION AND ITS NATURAL LAWS,"** by Charles A. Cyphers. Mr. Cyphers has devoted the best years of his life to the study of artificial incubating and brooding, and this book is conceded to be the best treatise given to the public on this subject to date. It is both scientific and practical. **Price, 50c.**

ANY OF THE ABOVE MAILED FREE ON RECEIPT OF PRICE.



# Do You Want to Save Money?

# Do You Want Good Crops?

Then buy our

## HIGH GRADE TESTED SEEDS

We carry nothing but the **very best** in our line.

**“QUALITY COUNTS”**

Our **Velvet Lawn Grass Seed** is the **very best** and contains nothing but the very choicest Kentucky Blue Grass and White Clover. This mixture produces the soft, velvety turf so much admired in perfect lawns. To enrich your old lawns, use our **Odorless Lawn Dressing**; no weeds or bad smells by using this. Also good for flowers and plants.

# Do You Need an Incubator?

# Do You Want the “Best There Is”?

Then you must get a **CYPHERS**. Remember, we are Northwest Agents for these celebrated hatchers and brooders. We also carry a full and complete line of **Cyphers Poultry Foods and Supplies, Etc.**

Look us up when in the city. We are located at 319 First Avenue South, corner of Jackson Street.



New Firm with  
New Seeds at the  
Right Prices

Northwest Agents  
for the Celebrated

**Cyphers**



**INCUBATORS**  
**BROODERS**  
and **POULTRY FOODS**  
and **SUPPLIES**